

EXHIBIT 28

REDACTED VERSION

OF DOCUMENT

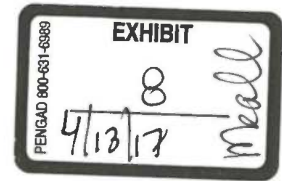
SOUGHT TO BE SEALED

EXHIBIT 29

**REDACTED VERSION
OF DOCUMENT
SOUGHT TO BE SEALED**

EXHIBIT 30

Uber Technologies, Inc.
1455 Market Street, 4th Floor
San Francisco, CA 94103



August 17, 2016

Anthony Levandowski

Re: **EMPLOYMENT AGREEMENT**

Dear Anthony

I am pleased to offer you the position of TBD. Your employment by Uber Technologies, Inc., a Delaware corporation (the "Company" or "Uber") shall be governed by the following terms and conditions (this "Agreement"):

1. **Duties and Scope of Employment.**

a. **Position.** During your employment under this Agreement (your "Employment"), the Company agrees to employ you in the position of TBD, or in such other position as the Company subsequently may assign to you. You will initially report directly to Travis Kalanick, or thereafter to the then-existing Chief Executive Officer, Chief Product Officer, or other direct reports of the Chief Executive Officer (the "Reporting Requirement"). During your Employment, you will work out of the Company's office in the San Francisco Bay Area (the "Geographic Requirement"). You will perform the duties and have the responsibilities and authority customarily performed and held by an employee in your position or as otherwise may be assigned or delegated to you by your supervisor.

b. **Obligations to the Company.** During your Employment, you shall devote your full business efforts and time to the Company or one of its affiliates or subsidiaries. During your Employment, without express written permission from the Chief Executive Officer or one of his direct reports, you shall not render services in any capacity to any other person or entity and shall not act as a sole proprietor or partner of any other person or entity or own more than five percent of the stock of any other corporation; provided, however, that such limitation shall not apply to any equity securities you hold in Otto Trucking LLC, a Delaware limited liability company (the "Trucking Company"). Notwithstanding the foregoing, you may serve on corporate, civic or charitable boards or committees, deliver lectures, fulfill speaking engagements, teach at educational institutions, or manage personal investments without such advance written consent, provided that such activities do not individually or in the aggregate



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interfere with the performance of your duties under this Agreement. You shall comply with the Company's policies and rules, to the extent not inconsistent with this letter, as they may be in effect from time to time during your Employment.

c. **No Conflicting Obligations.** You represent and warrant to the Company that you are under no obligations or commitments, whether contractual or otherwise, that are inconsistent with your obligations under this Agreement. In connection with your Employment, you shall not use or disclose any trade secrets or other proprietary information or intellectual property in which you or any other person has any right, title or interest and your Employment will not infringe or violate the rights of any other person. You represent and warrant to the Company that you have returned or destroyed all property and confidential information belonging to any prior employer.

d. **Commencement Date.** You shall commence full-time Employment on August 22, 2016, or such later date that the Company acquires Ottomotto LLC (such date, the "Closing" or the "Start Date"). For the avoidance of doubt, if the Closing does not occur, this Agreement shall automatically be null and void and have no further force and effect.

2. **Cash and Incentive Compensation.**

a. **Salary.** The Company shall pay you as compensation for your services an initial base salary at a gross annual rate of [REDACTED]. Such salary shall be payable in accordance with the Company's standard payroll procedures. The annual compensation specified in this subsection (a), together with any modifications in such compensation that the Company may make from time to time, is referred to in this Agreement as "**Base Salary.**"

b. **Performance Bonus.** As an Uber employee, you will be eligible to participate in Uber's annual performance Bonus Program, with your first bonus award (if any) prorated based on your start date at Uber. Uber has a pay for performance culture and we compensate our top performers accordingly. Uber is a dynamic place and bonus awards under the Bonus Program may vary year to year based on a number of factors including company performance. However, for context, last year the average bonus value was [REDACTED] for individuals in a comparable role / level and the average for the top half of performers in a comparable role / level was [REDACTED]. These bonus awards were delivered mostly in equity, which vested over three years. Please note that these historical values are averages across a broad range of employees and that it is unlikely that any given person would receive these exact award amounts. Uber does not guarantee that you will receive a bonus - the lowest 20% of performers should not expect to receive an award and all awards are at the full discretion of the Company.

c. **Restricted Stock.**

i. Subject to the approval of the Company's Board of Directors (the "**Board**"), the Company shall grant you [REDACTED] of the

Company's Common Stock (the "Original Shares"). The Original Shares shall be granted as soon as reasonably practicable after the Start Date. The Original Shares will be subject to a time-based vesting condition, a performance-based vesting condition, and a milestone-based vesting condition, as well as to other terms and conditions set forth in the Company's 2013 Stock Plan (the "Stock Plan") and in the form of Restricted Stock Award Agreement (attached hereto as *Attachment D*).

ii. In the event that any time during your Employment (x) the Company breaches the Reporting Requirement, (y) the Company breaches the Geographic Requirement or (z) at least fifty percent (50%) of the total number of your direct or indirect reports (calculated as the greater of the number of your direct or indirect reports on the closing of the Company's acquisition of the Trucking Company, or, the highest number of such reports at any time following such closing), as a result of the Company's actions (excluding your actions or any actions taken at your direction), (1) no longer directly or indirectly report to you or (2) relocate outside of the San Francisco Bay Area (each of clauses, (x), (y) and (z), an "Additional Share Trigger"), and, in each case, you continue your Employment with the Company or one of its affiliates, subject to the approval of the Board, the Company shall grant you [REDACTED] of the Company's Common Stock (the "Additional Shares", and collectively with the Original Shares, the "Shares"). For the sake of clarity, there will not be an Additional Share Trigger pursuant to clause (z) if at least fifty percent of your direct or indirect reports (as calculated above) no longer directly or indirectly report to you or relocate outside of the San Francisco Bay Area as a result of their own volition, request or act (each, a "Voluntary Employee Separation") and not as a result of any actions of the Company (excluding your actions or any actions taken at your direction) that would reasonably be expected to result in such Voluntary Employee Separation. The Additional Shares shall be granted as soon as reasonably practicable after the date of the Additional Share Trigger. The Additional Shares will have the same Vesting Commencement Date (as defined in the Restricted Stock Award), and be subject to the same time-based vesting condition, the same performance-based vesting condition, and the same milestone-based vesting condition, as well as the same other terms and conditions set forth in the Stock Plan and in the form of Restricted Stock Award Agreement (attached hereto as *Attachment D*) as the Original Shares.

iii. For further information about the vesting conditions applicable to the Shares, please see the Restricted Stock Vesting Summary (attached hereto as *Attachment C*). By executing this Agreement, you and the Company each acknowledge and agree that the milestone-based vesting conditions set forth in Exhibit A to the Restricted Stock Award Agreement may be amended or modified at any time as mutually agreed between the Company, on the one hand, and you and Lior Ron, on the other hand (subject to each of your continued employment with the Company or an affiliate as of the date of such modification or amendment). If any milestone-based vesting condition is so amended or modified, the Company will promptly notify you of such amendments or modifications and provide you with an updated Exhibit A to the Restricted Stock Award Agreement.

d. Notwithstanding any provision to the contrary herein or in any other agreement, if (a) there is a secondary offering or Company repurchase of the Company's common stock during your Employment and prior to a Liquidation Transaction (as defined in the Restricted Stock Award Agreement) (i) in which the Chief Executive Officer and his direct reports are generally entitled to participate (excluding, for the avoidance of doubt, any Company repurchase of any equity securities of any employee of the Company in connection with such employee's termination), (ii) in which non-employee investors are generally entitled to participate, or (iii) pursuant to which over \$500,000,000 of equity securities will be sold or repurchased (as applicable) (each of clauses (i), (ii) and (iii), a "Participating Secondary Offering"), (b) you continue your Employment with the Company or one of its affiliates through the date of the Participating Secondary Offering, and (c) the Time Condition and the Milestone Condition (each as defined in the Restricted Stock Award Agreement) have each been achieved as to any of your Shares, then with respect to such Shares for which the Time Condition and the Milestone Condition have been achieved, you will be entitled to participate in the Participating Secondary Offering (regardless of your tenure with the Company or your seniority within the Company) on the same terms and conditions as the other participants in such Participating Secondary Offering, and the percentage of such Shares that you are permitted to sell in such Participating Secondary Offering will accelerate and vest immediately prior to the Participating Secondary Offering (and you will be permitted to sell such accelerated Shares in the Participating Secondary Offering); provided, however, that in the case of a Participating Secondary Offering pursuant to clause (iii) above, you, Lior Ron, Donald Burnette, Claire Delaunay and Eric Berdinis shall, in the aggregate, not be permitted to sell more than twenty percent (20%) of the total number of equity securities sold in such Participating Secondary Offering.

3. **Vacation/PTO and Employee Benefits.** During your Employment, you shall be eligible for paid vacation / paid time off, in accordance with the Company's vacation / paid time off policy, as it may be amended from time to time. During your Employment, you shall be eligible to participate in the employee benefit plans maintained by the Company and generally available to similarly situated employees of the Company, subject in each case to the generally applicable terms and conditions of the plan in question and to the determinations of any person or committee administering such plan.

4. **Business Expenses.** The Company will reimburse you for your necessary and reasonable business expenses incurred in connection with your duties hereunder upon presentation of an itemized account and appropriate supporting documentation, all in accordance with the Company's generally applicable policies.

5. **Termination.**

a. **Employment at Will.** Your Employment shall be "at will," meaning that either you or the Company shall be entitled to terminate your Employment at any time and for any reason, with or without Cause. Any contrary representations that may have been made to you shall be superseded by this Agreement. This Agreement shall constitute the full and

complete agreement between you and the Company on the “at-will” nature of your Employment, which may only be changed in an express written agreement signed by you (or your authorized representative) and a duly authorized officer of the Company.

b. **Rights Upon Termination.** Except as expressly provided herein and in the Restricted Stock Award Agreement, upon the termination of your Employment, you shall only be entitled to the compensation and benefits earned and the reimbursements described in this Agreement for the period preceding the effective date of the termination.

6. **Pre-Employment Conditions.**

a. **Confidentiality Agreement.** Your acceptance of this offer and commencement of employment with the Company is contingent upon the execution, and delivery to an officer of the Company, of the Company’s Confidential Information and Invention Assignment Agreement, a copy of which is enclosed for your review and execution (the “Confidentiality Agreement”), prior to or on your Start Date and continued compliance with the Confidentiality Agreement thereafter.

b. **Right to Work.** For purposes of federal immigration law, you will be required to provide to the Company documentary evidence of your identity and eligibility for employment in the United States. Such documentation must be provided to us within three (3) business days of your Start Date, or our employment relationship with you may be terminated. This offer may be rescinded if you are unable to begin work at Uber within a reasonable amount of time due to work eligibility issues or export control licensure requirements.

c. **Alternate Dispute Resolution Agreement.** Your acceptance of this offer and commencement of employment with the Company is contingent upon the execution, and delivery to an officer of the Company, of the Alternate Dispute Resolution Agreement, a copy of which is enclosed as *Attachment B* for your review and execution, prior to or on your Start Date.

7. **Successors.**

a. **Company’s Successors.** This Agreement shall be binding upon any successor (whether direct or indirect and whether by purchase, lease, merger, consolidation, liquidation or otherwise) to all or substantially all of the Company’s business and/or assets. For all purposes under this Agreement, the term “Company” shall include any successor to the Company’s business or assets that becomes bound by this Agreement.

b. **Your Successors.** This Agreement and all of your rights hereunder shall inure to the benefit of, and be enforceable by, your personal or legal representatives, executors, administrators, successors, heirs, distributees, devisees and legatees.

8. **Miscellaneous Provisions.**

a. **Notice.** Notices and all other communications contemplated by this Agreement shall be in writing and shall be deemed to have been duly given when personally delivered or when mailed by U.S. registered or certified mail, return receipt requested and postage prepaid. In your case, mailed notices shall be addressed to you at the home address that you most recently communicated to the Company in writing. In the case of the Company, mailed notices shall be addressed to its corporate headquarters, and all notices shall be directed to the attention of its General Counsel.

b. **Modifications and Waivers.** No provision of this Agreement shall be modified, waived or discharged unless the modification, waiver or discharge is agreed to in writing and signed by you (or your authorized representative) and by an authorized officer of the Company (other than you). No waiver by either party of any breach of, or of compliance with, any condition or provision of this Agreement by the other party shall be considered a waiver of any other condition or provision or of the same condition or provision at another time.

c. **Whole Agreement.** No other agreements, representations or understandings (whether oral or written and whether express or implied) which are not expressly set forth in (or incorporated by reference into) this Agreement have been made or entered into by either party with respect to the subject matter hereof. This Agreement and the Confidentiality Agreement contain the entire understanding of the parties with respect to the subject matter hereof.

d. **Withholding Taxes.** All payments made under this Agreement shall be subject to reduction to reflect taxes or other charges required to be withheld by law.

e. **Choice of Law and Severability.** This Agreement shall be interpreted in accordance with the laws of the State in which you work/last worked without giving effect to provisions governing the choice of law. If any provision of this Agreement becomes or is deemed invalid, illegal or unenforceable in any applicable jurisdiction by reason of the scope, extent or duration of its coverage, then such provision shall be deemed amended to the minimum extent necessary to conform to applicable law so as to be valid and enforceable or, if such provision cannot be so amended without materially altering the intention of the parties, then such provision shall be stricken and the remainder of this Agreement shall continue in full force and effect. If any provision of this Agreement is rendered illegal by any present or future statute, law, ordinance or regulation (collectively, the "Law") then that provision shall be curtailed or limited only to the minimum extent necessary to bring the provision into compliance with the Law. All the other terms and provisions of this Agreement shall continue in full force and effect without impairment or limitation.

f. **Arbitration.** As set forth in more detail in the Alternate Dispute Resolution Agreement (attached hereto as *Attachment B* and incorporated by reference as part of this offer of employment), You and the company agree to submit to mandatory binding arbitration any and all claims arising out of or related to your employment with the Company and your termination thereof, including but not limited to, claims for unpaid wages, wrongful

terminations, torts, stock or RSUs or other ownership interest in the Company and/or discrimination (including harassment) based upon any federal, state or local ordinance, statute, regulation or constitutional provision, except that each party may, at its, his or her option, seek temporary or preliminary injunctive relief in court in connection with an arbitrable controversy, but only upon the ground that the award to which that party may be entitled may be rendered ineffectual without such relief. Arbitration under the Alternate Dispute Resolution Agreement is on an individual basis only, and class, collective and representative actions are not permitted. All arbitration hearings shall be conducted within 50 miles of the Uber office you work(ed) in or report(ed) to or at any other location mutually agreed to. THE PARTIES HEREBY WAIVE ANY RIGHTS THEY MAY HAVE TO TRIAL BY JURY IN REGARD TO SUCH CLAIMS. This Agreement is governed by the Federal Arbitration Act (9 U.S.C. 1 et seq.) and does not restrict your right to file administrative claims you may bring before any government agency where, as a matter of law, the parties may not restrict the employee's ability to file such claims (including, but not limited to, the National Labor Relations Board, the Equal Employment Opportunity Commission and the Department of Labor).

g. **No Assignment.** This Agreement and all of your rights and obligations hereunder are personal to you and may not be transferred or assigned by you at any time. The Company may assign its rights under this Agreement to any entity that assumes the Company's obligations hereunder in connection with any sale or transfer of all or a substantial portion of the Company's assets to such entity.

h. **Counterparts.** This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

[Signature Page Follows]

We are all delighted to be able to extend you this offer and look forward to working with you. Please understand that this offer is contingent upon successful completion of your background check investigation. To indicate your acceptance of the Company's offer, please sign and date this letter in the space provided below and return it to me, along with a signed and dated original copy of the Confidentiality Agreement and the Alternate Dispute Resolution Agreement. The Company requests that you begin work in this new position on the date of the Closing. This offer must be accepted on or before August 19, 2016 at 5:00 pm PST.

Very truly yours,

Uber Technologies, Inc.

By: Jeffrey A. Holden

Name: Jeff Holden

Title: Chief Product Officer

ACCEPTED AND AGREED:

Anthony Levandowski

ALL

Date 8/23/2016

Attachment A: Confidential Information and Invention Assignment Agreement

Attachment B: Alternate Dispute Resolution Agreement

Attachment C: Restricted Stock Vesting Summary

Attachment D: Form of Restricted Stock Award Agreement

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EXHIBIT 31

**REDACTED VERSION
OF DOCUMENT
SOUGHT TO BE SEALED**

EXHIBIT 32

**INTENTIONALLY NOT
USED**

EXHIBIT 33

**REDACTED VERSION
OF DOCUMENT
SOUGHT TO BE SEALED**

Sent: Tue, 21 Feb 2017 17:58:34 +0000
Subject: Wickr [Case 3:17-cv-00939-WHA](#) Document 2510-5 Filed 01/19/18 Page 2 of 2
From: Mat Henley [REDACTED]
To: Mason Feldman [REDACTED]
Cc: Quang Pham [REDACTED] Susan Chiang <[REDACTED]>

Hey Mason,

We're rolling out a new chat system we use for Security Incident Response and we want to get Anthony and Lior on it. Do you mind going through the onboarding flow with us first so you can see the process? Since you're close to those guys, it'd be useful for you to be able to answer questions if they run into issues.

Quang (copied here) is your tech support on our rollout and can help with any issues.

Let me know if that's ok and we'll send you the onboarding invite shortly.

mat

EXHIBIT 34

Legal Overview

Craig Clark, Legal Director I

2017

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The Uber logo, consisting of the word "UBER" in white, bold, sans-serif capital letters on a black rectangular background.

UBER



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UBER00340332



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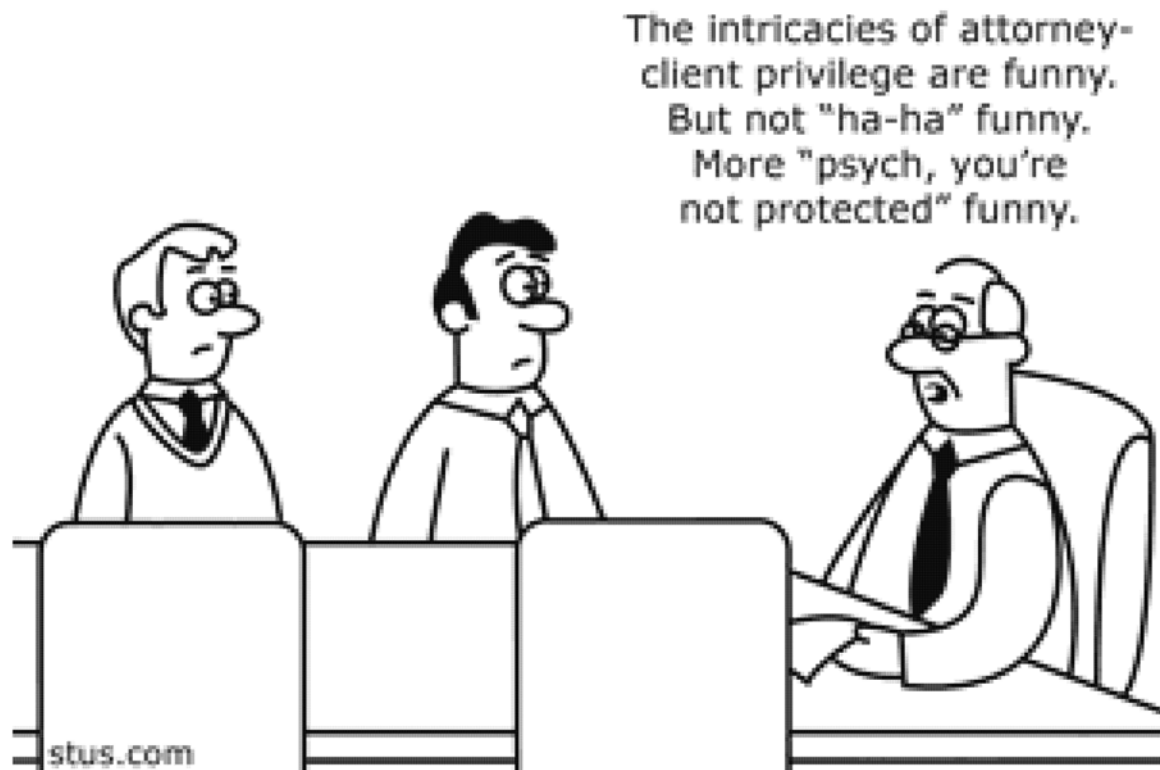
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Law !== Science

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UBER00340334



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UBER00340335



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UBER00340336

From: Uber
To: Uber VP of Global Operations
cc: John / Legal Senior Counsel
Subject: Quarterly Report - Privileged & Confidential

Attached are the numbers for last quarter. We need to discuss asap. I am marking this attorney-client privileged due to sensitivity.



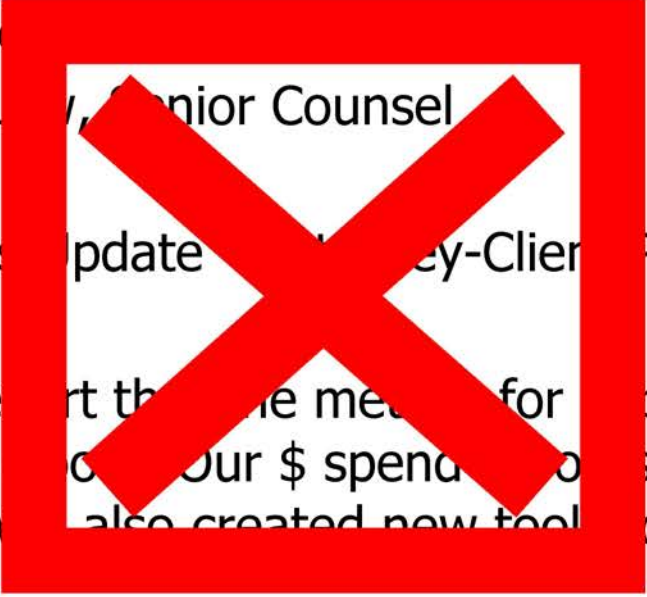
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UBER00340337

From: Legal Budget
To: Johnny Law, Senior Counsel
Re: Operations Update - Attorney-Client Privileged

I am happy to report that the metrics for department performance are good. Our \$ spend on outside counsel declined in Q1. We also created new tools to increase our efficiencies.



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UBER00340338

From: Bus Dev, Uber for Business

To: Johnny Law

Re: Need your A

I am concerned about the deal. Is the indemnity provision ok

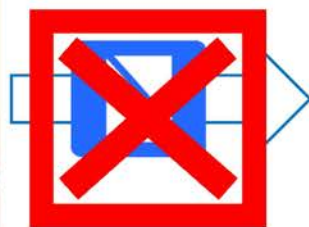


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UBER00340339

"My company needs uncapped indemnity."



"Fido, We need your advice. Can we give our vendor uncapped indemnity?"



"FYI – in case you are interested"

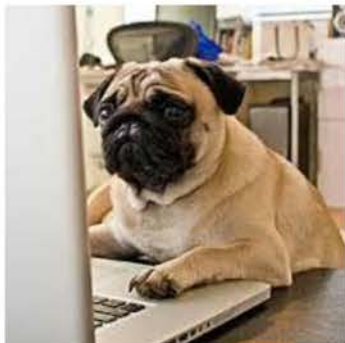


"Here's my advice & very sensitive strategy...."



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From:

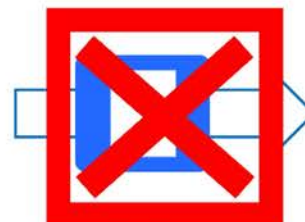


"Is there legal risk if we do XYZ? My team and I need to know."

CC:



"Here's my sweet legal opinion & advice."



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THE VERGE

TRENDING NOW

Amazon's full on-demand streaming music service launches today

23
NEW ARTICLES

LOG IN | SIGN UP

LONGFORM

REVIEWS

VIDEO

TECH

CIRCUIT BREAKER

SCIENCE

ENTERTAINMENT

CARS

TL;DR

FORUMS

Q

PREVIOUS STORY

New Suicide Squad trailer shows the Joker having a good time

NEXT STORY

Armed robbers used Pokémon Go to target victims in Missouri

TECH TRANSPORTATION REPORT UBER

58
COMMENTS

How Uber secretly investigated its legal foes — and got caught

Faced with a class action suit, the company hired a CIA-linked intelligence firm to look into the plaintiffs and their lawyer, but a judge says they may have gone too far

By **Russell Brandom** and **Andrew Hawkins** on July 10, 2016 05:00 pm [Email](#) [@russellbrandom](#)

The Intercept

FEDERAL JUDGE RIPS UBER APART OVER DIRT-DIGGING INVESTIGATION



Sam Biddle

July 29 2016, 12:15 p.m.

IN DECEMBER OF last year, Yale environmental researcher Spencer Meyer filed suit against Uber, alleging price fixing by Uber's drivers and founder in violation of federal antitrust law. Hardly the first person to accuse Uber of corporate malfeasance, Meyer nonetheless became the target of private investigators, working for a security company hired by Uber, who attempted to dig up derogatory information — an act the district judge hearing the case, Jed Rakoff, has now, in a 31-page [order](#), called "blatantly fraudulent and arguably criminal."

Emails turned over by Uber on the judge's instructions and summarized in the order show that on the day Meyer filed suit, Uber counsel Salle Yoo contacted the company's chief security officer, asking, "Could we find out a little more about this plaintiff?"

Uber investigations chief Mat Henley then selected a New York-based private investigative firm called Ergo, also known as Global Precision Research, and began working with one of its executives, Todd Egeland. Henley said in a sworn deposition. Egeland's online bios state openly that he is a 28-year veteran of the CIA with experience in counterintelligence and cyberthreats.

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Case 1:15-cv-09796-JSR Document 119 Filed 07/25/16 Page 1 of 31

UNITED STATES DISTRICT COURT
SOUTHERN DISTRICT OF NEW YORK

-----x
SPENCER MEYER, individually and on :
behalf of those similarly situated, :

Plaintiff, :

-v- :

TRAVIS KALANICK and :
UBER TECHNOLOGIES, INC., :

Defendants. :
-----x

15 Civ. 9796

OPINION AND ORDER

JED S. RAKOFF, U.S.D.J.

It is a sad day when, in response to the filing of a commercial lawsuit, a corporate defendant feels compelled to hire unlicensed private investigators to conduct secret personal background investigations of both the plaintiff and his counsel. It is sadder yet when these investigators flagrantly lie to friends and acquaintances of the plaintiff and his counsel in an (ultimately unsuccessful) attempt to obtain derogatory

information about them. The questions here presented, however, are whether such dubious practices result in waiver of attorney-client privilege and work-product protection, and whether disciplinary action is warranted.

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subpoenas' parameters. See id. at 4-5. In response to the subpoenas, Uber and Ergo claimed attorney-client privilege and/or work-product protection over numerous documents and voice recordings, and the Court indicated that it would need to review these materials in camera to determine whether privilege was correctly asserted and/or whether the "crime-fraud" exception to the privilege applied. See id. at 5. The Court further stated that in camera review would also be needed to determine whether plaintiff would be authorized to depose Uber's General Counsel Salle Yoo. See id. at 4-5.

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Message

From: Joe Sullivan [REDACTED]@uber.com]
Sent: 12/16/2015 9:52:32 PM
To: Mat Henley [REDACTED]@uber.com]
Subject: FW: Antitrust Lawsuit in SDNY Against Travis
Attachments: 2015-12-16 Case No. 15-cv-09796 Spencer Meyer v. Travis Kalanick (Uber Complaint).pdf

Please do a careful check on this plaintiff (the person who is the driver/named party in the case).

From: Salle Yoo [REDACTED]@uber.com>
Date: Wednesday, December 16, 2015 at 1:42 PM
To: Joe Sullivan [REDACTED]@uber.com>
Subject: Fwd: Antitrust Lawsuit in SDNY Against Travis

ATTY CLIENT COMMUNICATION - PRIVILEGE

Joe,

Could we find out a little more about this plaintiff?

Thanks,
 Salle

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Eddy, has
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 rrorism at
 ring the
 assador
 senior
 man.
 rtment's

**Emails were encrypted to
 "avoid potential
 discovery issues."**

Case 1:15-cv-09796-JSR Document 104-5 Filed 07/01/16 Page 3 of 26

FIRST EMAIL RECEIVED REGARDING PROJECT #2
 12/17/15 @ 9:04 AM MST
 EMAIL FROM MAT HENLEY TO TODD EGELAND AND MATTHEW MONEYHON

Mat Henley [REDACTED] 12/17/15

-----BEGIN PGP MESSAGE-----
 Content: ISO-8859-1
 Content: GPG Tools - <https://gnupg.org>
 Content: Using GnuPG with Mozilla - <https://mail.mozilla.org/>

RGEMASZG3ZuA2AG2TAAQWVYXNDP+YBNDLrtg7oAduh2wep4hV2B
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-----END PGP MESSAGE-----

DECRYPTED TEXT

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UBER00340345

0000059. Mr. Henley sent the report to Mr. Sullivan, Uber's Chief Security Officer, and to Craig Clark, Esq., Uber's Legal Director of Security and Enforcement. See id.; see also Letter dated May 20, 2016, Dkt. 79. Mr. Sullivan, in turn, passed on the report to Uber's General Counsel Salle Yoo. See Hanna Decl., Exhibit H, at UBER-0000059.

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Crime-fraud exception to attorney-client privilege – Facebook’s lawsuit

Blog From the Sidebar

Cozen O'Connor




USA | December 18 2014

The crime-fraud exception to attorney-client privilege: As an attorney, you may not anticipate it applying to your emails, your letters or your advice to your client. But even if you never see it coming, your client’s intentions in obtaining legal advice may expose your communications to disclosure. A law firm is experiencing this problem firsthand in a series of high-profile cases involving Facebook, Mark Zuckerberg and a former business partner. The cases present an interesting study in how the crime-fraud exception can operate.

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UBER00340347

 2:28 PM Today Resolve ⋮
 Test comment

Reply Cancel



Invite people:
 Can edit ▼
☒ Notify people via email - [Add message](#)
Share & save Cancel

☐ Send a copy to myself
☐ Paste the item itself into the email

Revision history ×	
May 22, 2:51 PM	■ GlennF
May 17, 4:05 PM	■ adamengst ■ GlennF
May 8, 2:29 PM	■ adamengst ■ GlennF
Apr 19, 10:50 AM	■ GlennF
Apr 19, 10:13 AM	■ GlennF
Apr 16, 12:14 PM	■ adamengst ■ GlennF
Apr 13, 10:04 AM	■ GlennF Restore this revision
Apr 9, 1:09 PM	■ GlennF

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TECH

Uber Data And **Leaked Docs** Provide A Look At How Much Uber Drivers Make

Uber data suggests that drivers overall in three major U.S. markets — Denver, Detroit, and Houston — earned less than \$13.25 an hour after expenses in late 2015, according to calculations based on more than a million trips.

posted on Jun. 22, 2016, at 3:37 p.m.



Caroline O'Donovan
BuzzFeed News Reporter



Jeremy Singer-Vine
BuzzFeed News Data Editor

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UBER00340351

Examples of Legal Conclusions

- Company...
 - ...is (or is not) doing something illegal.
 - ...will (or will not) be sued if it [insert conduct].
 - ...is (or is not) breaching a contract.
 - ...does (or does not) need a license for certain technology.
 - ...does (or does not) have a patent on certain technology.

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UBER00340352

Best Practices

- **Talk**
- **Zoom**
- **Phone (voice)**
- **Appropriate security**
- **Extreme care**
- **NYT/WSJ test**
- **Don't speculate**
- **Use legal**

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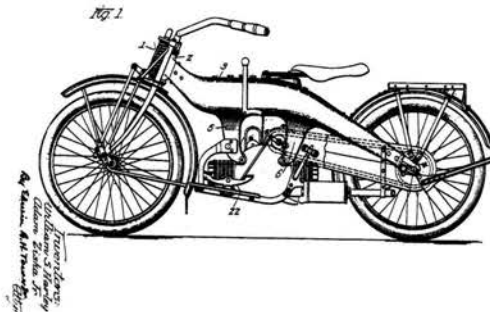
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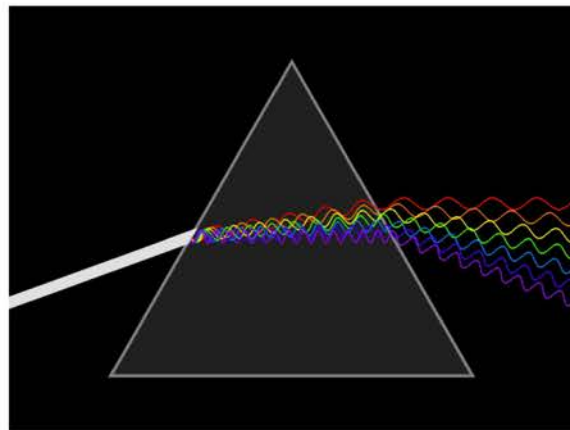
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“ ”

EXHIBIT 35

Legal Overview

Craig Clark, Legal Director I

October 13, 2016

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The Uber logo, consisting of the word "UBER" in white, bold, sans-serif capital letters on a black rectangular background.

UBER



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UBER00340360



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UBER00340361



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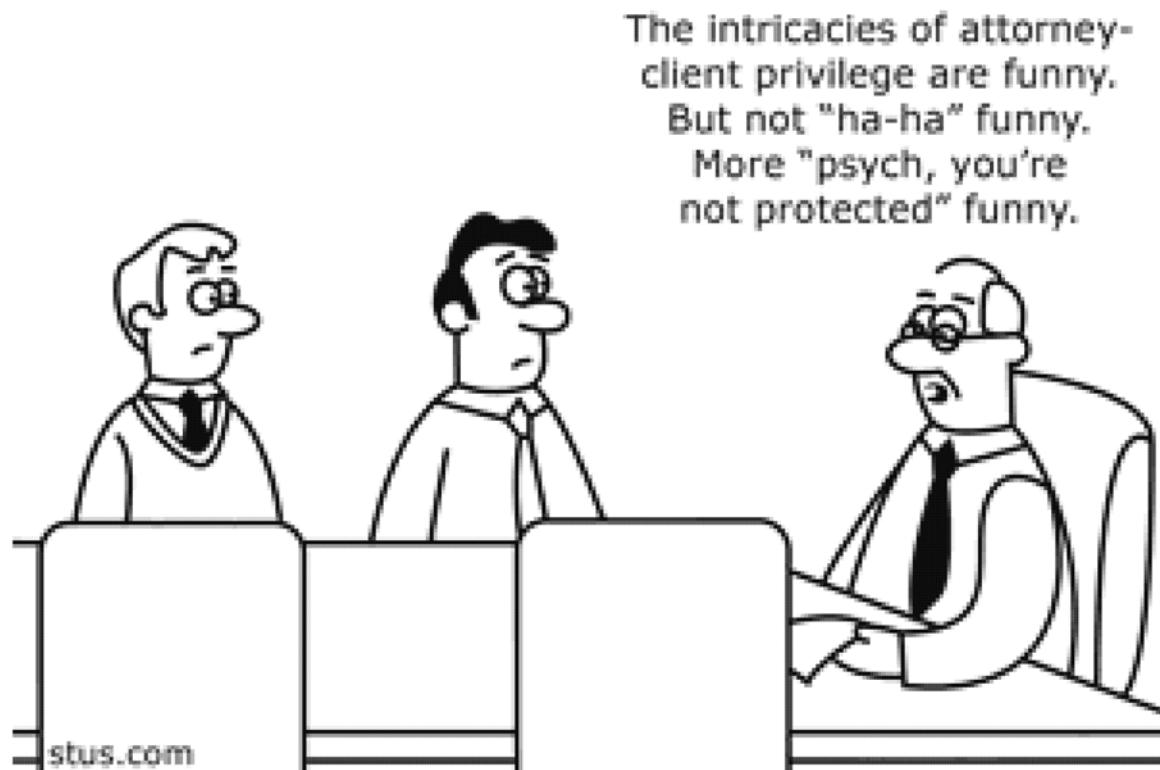
UBER00340362

Law !== Science

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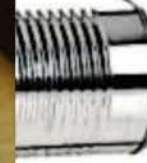
UBER00340363



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UBER00340364




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UBER00340365

From: Uber
To: Uber VP of Global Operations
cc: John / Legal Senior Counsel
Subject: Quarterly Report - Privileged & Confidential

Attached are the numbers for last quarter. We need to discuss asap. I am marking this attorney-client privileged due to sensitivity.



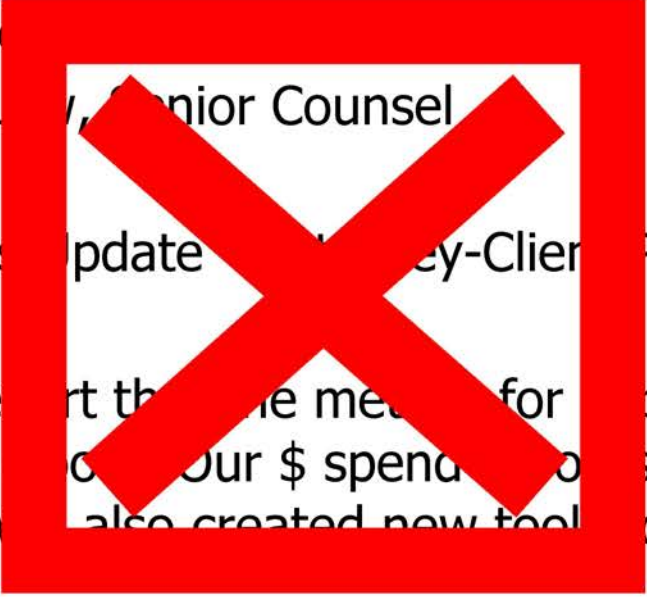
PRIVILEGED & CONFIDENTIAL

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UBER00340366

From: Legal Budget
To: Johnny Law, Senior Counsel
Re: Operations Update - Attorney-Client Privileged

I am happy to report that the metrics for department performance are good. Our \$ spend on outside counsel declined in Q1. We also created new tools to increase our efficiencies.



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UBER00340367

From: Bus Dev, Uber for Business

To: Johnny Law

Re: Need your A

I am concerned about the deal. Is the indemnity provision ok

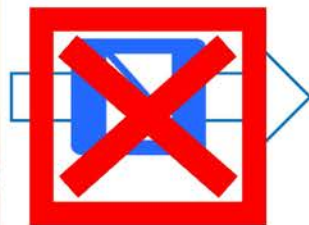


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UBER00340368

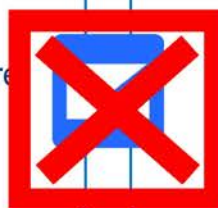
"My company needs uncapped indemnity."



"Fido, We need your advice. Can we give our vendor uncapped indemnity?"



"FYI – in case you are interested"



"Here's my advice & very sensitive strategy...."



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From:

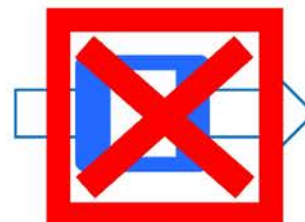


"Is there legal risk if we do XYZ? My team and I need to know."

CC:



"Here's my sweet legal opinion & advice."



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Amazon's full on-demand streaming music service launches today

23
NEW ARTICLES

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PREVIOUS STORY

New Suicide Squad trailer shows the Joker having a good time

NEXT STORY

Armed robbers used Pokémon Go to target victims in Missouri

TECH TRANSPORTATION REPORT UBER

58
COMMENTS

How Uber secretly investigated its legal foes — and got caught

Faced with a class action suit, the company hired a CIA-linked intelligence firm to look into the plaintiffs and their lawyer, but a judge says they may have gone too far

By **Russell Brandom** and **Andrew Hawkins** on July 10, 2016 05:00 pm Email @russellbrandom

The Intercept

FEDERAL JUDGE RIPS UBER APART OVER DIRT-DIGGING INVESTIGATION



Sam Biddle

July 29 2016, 12:15 p.m.

IN DECEMBER OF last year, Yale environmental researcher Spencer Meyer filed suit against Uber, alleging price fixing by Uber's drivers and founder in violation of federal antitrust law. Hardly the first person to accuse Uber of corporate malfeasance, Meyer nonetheless became the target of private investigators, working for a security company hired by Uber, who attempted to dig up derogatory information — an act the district judge hearing the case, Jed Rakoff, has now, in a 31-page [order](#), called "blatantly fraudulent and arguably criminal."

Emails turned over by Uber on the judge's instructions and summarized in the order show that on the day Meyer filed suit, Uber counsel Salle Yoo contacted the company's chief security officer, asking, "Could we find out a little more about this plaintiff?"

Uber investigations chief Mat Henley then selected a New York-based private investigative firm called Ergo, also known as Global Precision Research, and began working with one of its executives, Todd Egeland. Henley said in a sworn deposition. Egeland's online bios state openly that he is a 28-year veteran of the CIA with experience in counterintelligence and cyberthreats.

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UBER00340371

Case 1:15-cv-09796-JSR Document 119 Filed 07/25/16 Page 1 of 31

UNITED STATES DISTRICT COURT
SOUTHERN DISTRICT OF NEW YORK

-----x
SPENCER MEYER, individually and on :
behalf of those similarly situated, :

Plaintiff, :

-v- :

TRAVIS KALANICK and :
UBER TECHNOLOGIES, INC., :

Defendants. :
-----x

15 Civ. 9796

OPINION AND ORDER

JED S. RAKOFF, U.S.D.J.

It is a sad day when, in response to the filing of a commercial lawsuit, a corporate defendant feels compelled to hire unlicensed private investigators to conduct secret personal background investigations of both the plaintiff and his counsel. It is sadder yet when these investigators flagrantly lie to friends and acquaintances of the plaintiff and his counsel in an (ultimately unsuccessful) attempt to obtain derogatory

information about them. The questions here presented, however, are whether such dubious practices result in waiver of attorney-client privilege and work-product protection, and whether disciplinary action is warranted.

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UBER00340372

subpoenas' parameters. See id. at 4-5. In response to the subpoenas, Uber and Ergo claimed attorney-client privilege and/or work-product protection over numerous documents and voice recordings, and the Court indicated that it would need to review these materials in camera to determine whether privilege was correctly asserted and/or whether the "crime-fraud" exception to the privilege applied. See id. at 5. The Court further stated that in camera review would also be needed to determine whether plaintiff would be authorized to depose Uber's General Counsel Salle Yoo. See id. at 4-5.

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Message

From: Joe Sullivan [REDACTED]@uber.com]
Sent: 12/16/2015 9:52:32 PM
To: Mat Henley [REDACTED]@uber.com]
Subject: FW: Antitrust Lawsuit in SDNY Against Travis
Attachments: 2015-12-16 Case No. 15-cv-09796 Spencer Meyer v. Travis Kalanick (Uber Complaint).pdf

Please do a careful check on this plaintiff (the person who is the driver/named party in the case).

From: Salle Yoo [REDACTED]@uber.com>
Date: Wednesday, December 16, 2015 at 1:42 PM
To: Joe Sullivan [REDACTED]@uber.com>
Subject: Fwd: Antitrust Lawsuit in SDNY Against Travis

ATTY CLIENT COMMUNICATION - PRIVILEGE

Joe,

Could we find out a little more about this plaintiff?

Thanks,
 Salle

PRIVILEGED & CONFIDENTIAL

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**Emails were encrypted to
 "avoid potential
 discovery issues."**

Case 1:15-cv-09796-JSR Document 104-5 Filed 07/01/16 Page 3 of 26

FIRST EMAIL RECEIVED REGARDING PROJECT #2
 12/17/15 @ 9:04 AM MST
 EMAIL FROM MAT HENLEY TO TODD EGELAND AND MATTHEW MONEYHON

Mat Henley [REDACTED]

12/17/15

To: [REDACTED]

-----BEGIN PGP MESSAGE-----

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Comment: GPG Tools - <http://gnupg.org>

Comment: Using GnuPG with Mozilla - <http://www.mozilla.com/en-US/pgp/>

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-----END PGP MESSAGE-----

DECRYPTED TEXT

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UBER00340374

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But Ergo's argument fundamentally misapprehends the nature of the crime-fraud exception. The purpose of this exception is "to assure that the seal of secrecy . . . between lawyer and client does not extend to communications made for the purpose of getting advice for the commission of a fraud or crime." United States v. Zolin, 491 U.S. 554, 563 (1989) (internal quotation marks omitted).⁵ As the Second Circuit has stated:

The rationale for the [crime-fraud] exclusion is closely tied to the policies underlying these privileges. Whereas confidentiality of communications and work product facilitates the rendering of sound legal advice, advice in furtherance of a fraudulent or unlawful goal cannot be considered "sound." Rather advice in furtherance of such goals is socially perverse, and the client's communications seeking such advice are not worthy of protection.

In re Grand Jury Subpoena, 731 F.2d at 1038. If actual damages had to be shown in order for "fraud" within the meaning of the

⁵ While this formulation of the crime-fraud exception is based on the attorney-client privilege, the crime-fraud exception also applies to the work-product doctrine, as noted *supra*. See In re Richard Roe, 68 F.3d at 39; In re Grand Jury Subpoena, 731 F.2d at 1038.

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However, as to certain other communications over which Uber claimed privilege, the Court found that they either were covered by attorney-client privilege and/or were covered by a work-product protection that was not overcome by substantial need. These communications included, for instance, emails between Mr. Kalanick's counsel and Uber in-house counsel addressing potential responses to plaintiff's counsel's inquiries and letters about the Ergo investigation. As to the crime-fraud exception, the Court did not find that this exception applied to the documents over which the Court upheld Uber's claims of privilege. For example, the Court did not find that Mr. Kalanick's counsel, in making inaccurate representations to plaintiff's counsel about whether Uber had commissioned the Ergo

U.S. Department of Justice
United States Marshals Service



WANTED

By U.S. MARSHALS

Name: CEGLIA, Paul

Alias: SEGLIA, Dean

Sex..... MALE
Race..... WHITE
Height..... 5'10"
Weight..... 195 pounds
Eyes..... BROWN
Hair..... BLACK
Marks/Scars/Tattoos..... NONE



DATE OF PHOTO: 10/26/2012

Wanted For..... WIRE FRAUD

PRIVILEGED :

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Crime-fraud exception to attorney-client privilege – Facebook’s lawsuit

Blog From the Sidebar

Cozen O'Connor




USA | December 18 2014

The crime-fraud exception to attorney-client privilege: As an attorney, you may not anticipate it applying to your emails, your letters or your advice to your client. But even if you never see it coming, your client’s intentions in obtaining legal advice may expose your communications to disclosure. A law firm is experiencing this problem firsthand in a series of high-profile cases involving Facebook, Mark Zuckerberg and a former business partner. The cases present an interesting study in how the crime-fraud exception can operate.

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 2:28 PM Today Resolve ⋮
 Test comment

Reply Cancel



Invite people:
 Can edit ▼
☒ Notify people via email - [Add message](#)
Share & save Cancel

☐ Send a copy to myself
☐ Paste the item itself into the email

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TECH

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posted on Jun. 22, 2016, at 3:37 p.m.



Caroline O'Donovan
BuzzFeed News Reporter



Jeremy Singer-Vine
BuzzFeed News Data Editor

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Best Practices

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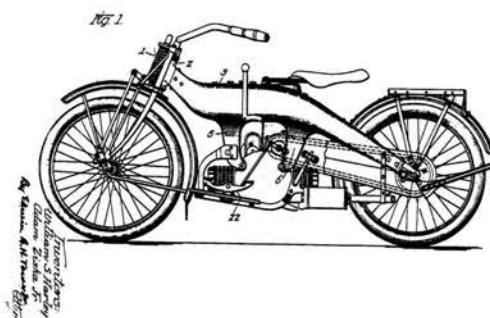
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UBER00340386



Oct. 7, 1924.
W. S. HANLEY ET AL.
Original Filed Nov. 1, 1923
1,510,937



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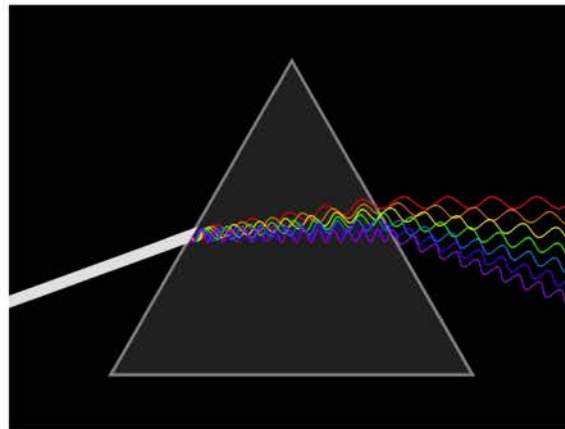
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UBER00340388



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CONFIDENTIAL

UBER00340389



“ ”

EXHIBIT 36

Legal Overview

Craig Clark, Legal Director I

2017

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The Uber logo, consisting of the word "UBER" in white, bold, sans-serif capital letters on a black rectangular background.

UBER



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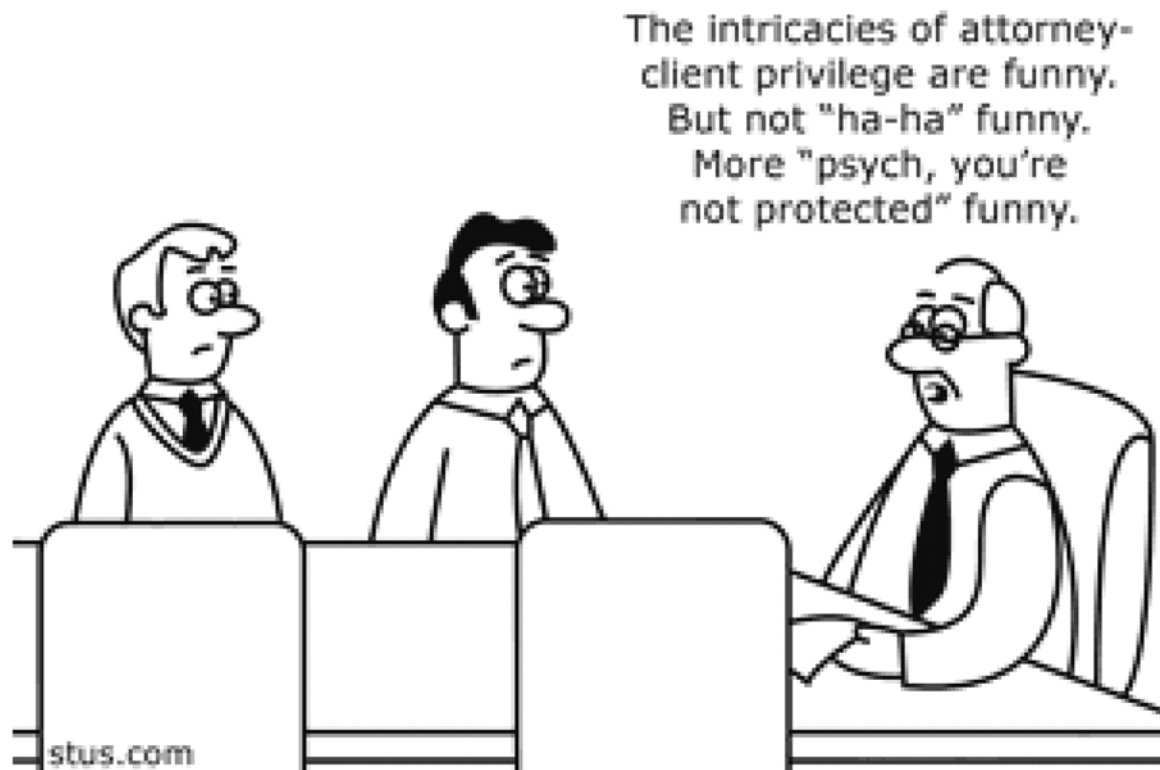
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Law !== Science

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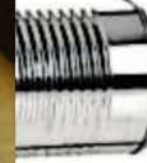
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UBER00340396

From: Uber
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cc: John / Legal Senior Counsel
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Re: Need your A

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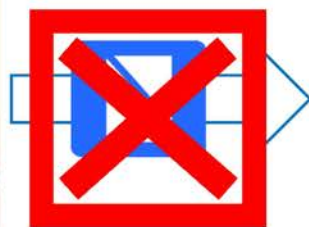


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UBER00340399

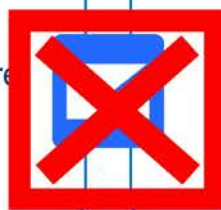
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From:

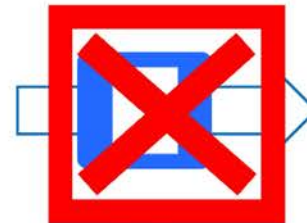
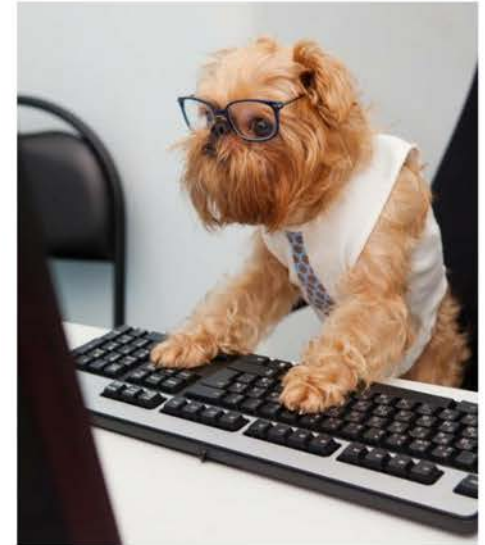


"Is there legal risk if we do XYZ? My team and I need to know."

CC:



"Here's my sweet legal opinion & advice."



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Amazon's full on-demand streaming music service launches today

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NEXT STORY

Armed robbers used Pokémon Go to target victims in Missouri

TECH TRANSPORTATION REPORT UBER

58
COMMENTS

How Uber secretly investigated its legal foes — and got caught

Faced with a class action suit, the company hired a CIA-linked intelligence firm to look into the plaintiffs and their lawyer, but a judge says they may have gone too far

By **Russell Brandom** and **Andrew Hawkins** on July 10, 2016 05:00 pm [Email](#) [@russellbrandom](#)

The Intercept

FEDERAL JUDGE RIPS UBER APART OVER DIRT-DIGGING INVESTIGATION



Sam Biddle

July 29 2016, 12:15 p.m.

IN DECEMBER OF last year, Yale environmental researcher Spencer Meyer filed suit against Uber, alleging price fixing by Uber's drivers and founder in violation of federal antitrust law. Hardly the first person to accuse Uber of corporate malfeasance, Meyer nonetheless became the target of private investigators, working for a security company hired by Uber, who attempted to dig up derogatory information — an act the district judge hearing the case, Jed Rakoff, has now, in a 31-page [order](#), called "blatantly fraudulent and arguably criminal."

Emails turned over by Uber on the judge's instructions and summarized in the order show that on the day Meyer filed suit, Uber counsel Salle Yoo contacted the company's chief security officer, asking, "Could we find out a little more about this plaintiff?"

Uber investigations chief Mat Henley then selected a New York-based private investigative firm called Ergo, also known as Global Precision Research, and began working with one of its executives, Todd Egeland. Henley said in a sworn deposition. Egeland's online bios state openly that he is a 28-year veteran of the CIA with experience in counterintelligence and cyberthreats.

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UBER00340402

Case 1:15-cv-09796-JSR Document 119 Filed 07/25/16 Page 1 of 31

UNITED STATES DISTRICT COURT
SOUTHERN DISTRICT OF NEW YORK

-----x
SPENCER MEYER, individually and on :
behalf of those similarly situated, :

Plaintiff, :

-v- :

TRAVIS KALANICK and :
UBER TECHNOLOGIES, INC., :

Defendants. :
-----x

15 Civ. 9796

OPINION AND ORDER

JED S. RAKOFF, U.S.D.J.

It is a sad day when, in response to the filing of a commercial lawsuit, a corporate defendant feels compelled to hire unlicensed private investigators to conduct secret personal background investigations of both the plaintiff and his counsel. It is sadder yet when these investigators flagrantly lie to friends and acquaintances of the plaintiff and his counsel in an (ultimately unsuccessful) attempt to obtain derogatory

information about them. The questions here presented, however, are whether such dubious practices result in waiver of attorney-client privilege and work-product protection, and whether disciplinary action is warranted.

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UBER00340403

subpoenas' parameters. See id. at 4-5. In response to the subpoenas, Uber and Ergo claimed attorney-client privilege and/or work-product protection over numerous documents and voice recordings, and the Court indicated that it would need to review these materials in camera to determine whether privilege was correctly asserted and/or whether the "crime-fraud" exception to the privilege applied. See id. at 5. The Court further stated that in camera review would also be needed to determine whether plaintiff would be authorized to depose Uber's General Counsel Salle Yoo. See id. at 4-5.

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UBER00340404

Message

From: Joe Sullivan [REDACTED]@uber.com]
Sent: 12/16/2015 9:52:32 PM
To: Mat Henley [REDACTED]@uber.com]
Subject: FW: Antitrust Lawsuit in SDNY Against Travis
Attachments: 2015-12-16 Case No. 15-cv-09796 Spencer Meyer v. Travis Kalanick (Uber Complaint).pdf

Please do a careful check on this plaintiff (the person who is the driver/named party in the case).

From: Salle Yoo [REDACTED]@uber.com>
Date: Wednesday, December 16, 2015 at 1:42 PM
To: Joe Sullivan [REDACTED]@uber.com>
Subject: Fwd: Antitrust Lawsuit in SDNY Against Travis

ATTY CLIENT COMMUNICATION - PRIVILEGE

Joe,

Could we find out a little more about this plaintiff?

Thanks,
 Salle

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Eddy, has
 and
 rrorism at
 ring the
 assador
 senior
 man.
 rtment's

**Emails were encrypted to
 "avoid potential
 discovery issues."**

Case 1:15-cv-09796-JSR Document 104-5 Filed 07/01/16 Page 3 of 26

FIRST EMAIL RECEIVED REGARDING PROJECT #2
 12/17/15 @ 9:04 AM MST
 EMAIL FROM MAT HENLEY TO TODD EGELAND AND MATTHEW MONEYHON

Mat Henley [REDACTED] 12/17/15

-----BEGIN PGP MESSAGE-----
 Content: ISO-8859-1
 Content: GPG Tools - <https://gnupg.org>
 Content: Using GnuPG with Mozilla - <https://mail.mozilla.org/>

RGEMASZG3ZuAnQAG2WACMRWYXNDP+YBNDLrtg7oAdhuoWep4phY2B
 pndrHwogQuqP7b1XpUqy6CwVudShqAsTeeKSPWYcm3QpPepP7vTaka
 dLAUWv7WuMBVCKSCOKVJGIsFVxubqYXEDCm7L3p00xLDBQuoXGAGEv
 Hm180XQy0R2+3YFDRooq9Wla065eY7Zvnt4BwDOXScvMg7F2p3H
 RmUCVTOQC1pLW1vM1B8oCRocA03a-bfHUndF+PmW8GademlogTyuQU3eV
 tsUEADQgm5WEDTTF0+LuoJCFZWQ3yMbee4UCyGACZCQuuKdRAH+q0
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 9ExOj98pYwSCUu3ZA+MwVJub600K+Uy6Bku+GwAc3pGngentEK.M
 sZ+4UJLwGzdR0D77mp7xUpTtLUUD+4d0+4NeQ2pB8FngY1oAJTBo
 DE+YK7Z3eCMK8eQVwvHFTh8nabJ8FAdPjxgm9H+x15CqNP+28E/pag4
 Cm15o9BwN200sePvS-mKq94KtP0sz70Ad8y68TXNYU4F9nq2p9
 ApxJG895C8VEKMu8yQW976Q8RyGJZ7278M7YUJkL0bH138ePRA1v
 NsuGZ0uJwWdWPE87p9C8KzPT2K7g7Zdmg4G88u8Ryn0G2Z0eMPV5YPA
 VNJ5AP0bqJQVJLMBXnmw270K76x7K6UUPZ0VUwP6KTV0EBBv
 F0SE19FcrPbw8d0FFvM8KGLJNYTFL8ctd7wU8BPp9uJ08KAT7PwN
 hQghndCZ9e9vzUJ6w8M28Avt7KQd98DwF0M4TEG4K0E+2y0Nw1Q
 JqgC22vK0Y04A+8yfaC3PLuUM2vR8vJvA+8d8w8E8877h0yVnG+28FC0
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 pK030C2y54P0y0NPA8e888u8R5A5BvAKQ0C0dAFzwnTEx5u0Z
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 v8H2d8p8pQ08y8Y8L8D00y8y08v8V88K8ND8A8Faw1TQ0D8e10L8KJH+
 +10v8d8u8m8h8m8u88e8u8C00J82n8E0+LQ8w8y80y8G8V88v8G8TX8W8v
 8LQ8n8G8h8d8u88e88v8P8v8W8C8F1XUM8K777N4p8

-----END PGP MESSAGE-----

DECRYPTED TEXT

CONFIDENTIAL

UBER00340405

Crime-fraud exception to attorney-client privilege – Facebook's lawsuit

Blog From the Sidebar

Cozen O'Connor




USA | December 18 2014

The crime-fraud exception to attorney-client privilege: As an attorney, you may not anticipate it applying to your emails, your letters or your advice to your client. But even if you never see it coming, your client's intentions in obtaining legal advice may expose your communications to disclosure. A law firm is experiencing this problem firsthand in a series of high-profile cases involving Facebook, Mark Zuckerberg and a former business partner. The cases present an interesting study in how the crime-fraud exception can operate.

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UBER00340406

 2:28 PM Today Resolve ⋮
 Test comment

Reply Cancel



Invite people:
 Can edit ▼
☒ Notify people via email - [Add message](#)
Share & save Cancel

☐ Send a copy to myself
☐ Paste the item itself into the email

Revision history ×	
May 22, 2:51 PM	■ GlennF
May 17, 4:05 PM	■ adamengst ■ GlennF
May 8, 2:29 PM	■ adamengst ■ GlennF
Apr 19, 10:50 AM	■ GlennF
Apr 19, 10:13 AM	■ GlennF
Apr 16, 12:14 PM	■ adamengst ■ GlennF
Apr 13, 10:04 AM	■ GlennF Restore this revision
Apr 9, 1:09 PM	■ GlennF

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UBER00340408

TECH

Uber Data And **Leaked Docs** Provide A Look At How Much Uber Drivers Make

Uber data suggests that drivers overall in three major U.S. markets — Denver, Detroit, and Houston — earned less than \$13.25 an hour after expenses in late 2015, according to calculations based on more than a million trips.

posted on Jun. 22, 2016, at 3:37 p.m.



Caroline O'Donovan
BuzzFeed News Reporter



Jeremy Singer-Vine
BuzzFeed News Data Editor

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UBER00340409



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UBER00340410

Examples of Legal Conclusions

- Company...
 - ...is (or is not) doing something illegal.
 - ...will (or will not) be sued if it [insert conduct].
 - ...is (or is not) breaching a contract.
 - ...does (or does not) need a license for certain technology.
 - ...does (or does not) have a patent on certain technology.

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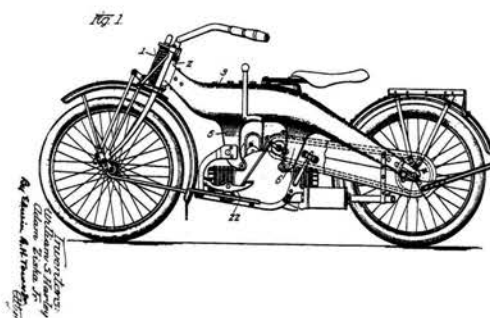
CONFIDENTIAL

UBER00340411

Best Practices

- **Talk**
- **Zoom**
- **Phone (voice)**
- **Appropriate security**
- **Extreme care**
- **NYT/WSJ test**
- **Don't speculate**
- **Use legal**

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Oct. 7, 1924.
W. S. HANLEY ET AL.
BY
Original Filed Nov. 1, 1923
2 Sheets-Draw. 1



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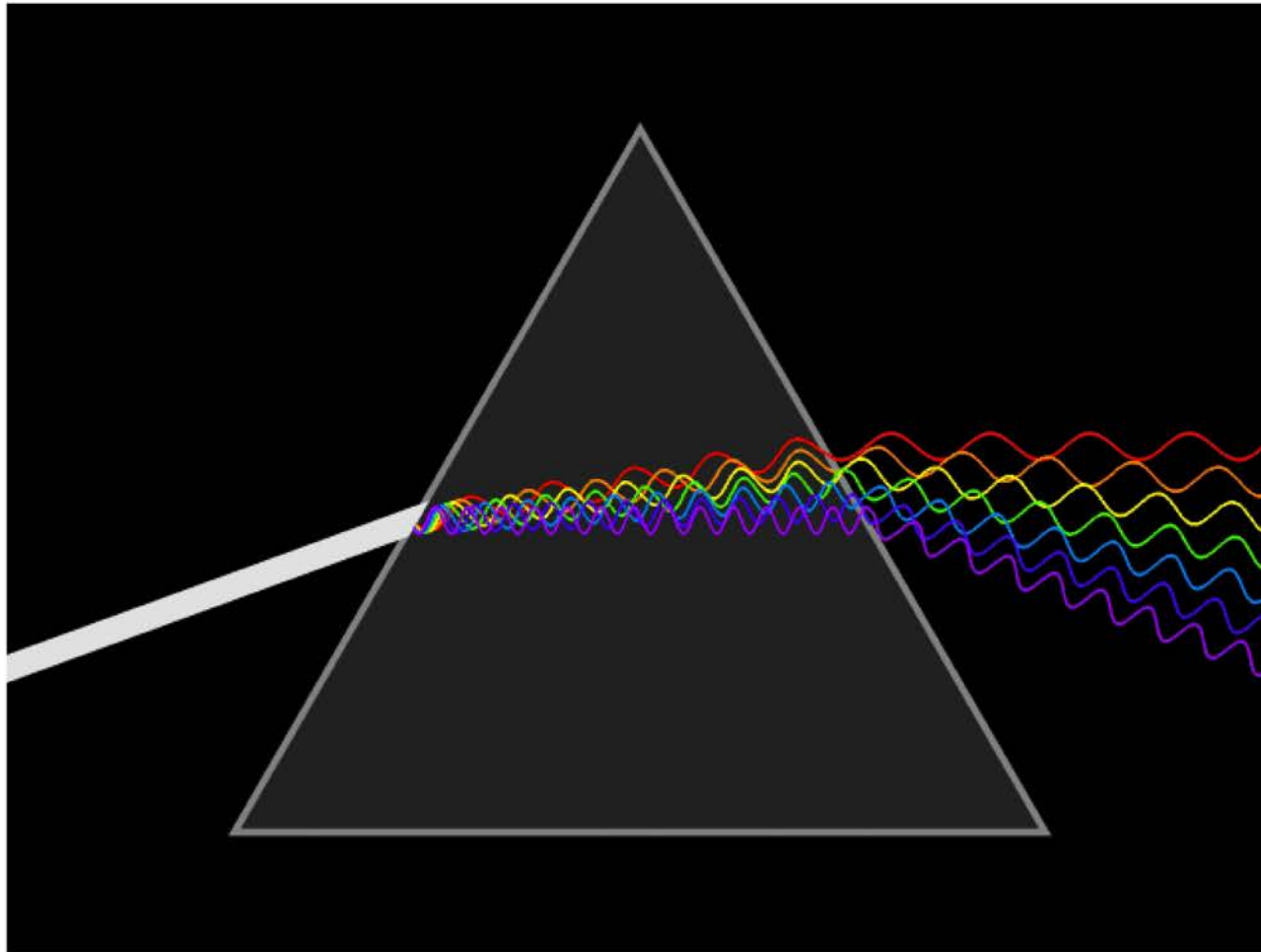
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UBER00340414



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UBER00340415



“ ”

EXHIBIT 37

**REDACTED VERSION
OF DOCUMENT
SOUGHT TO BE SEALED**

To: [REDACTED]
From: Ric Jacobs
Sent: Thur 4/13/2017 5:50:11 PM
Subject: Fwd: RO Intel report

Case 3:17-cv-00939-WHA Document 2510-9 Filed 01/19/18 Page 2 of 4

----- Forwarded message -----

From: Craig Clark <craig.clark@uber.com>
Date: Thu, Feb 9, 2017 at 8:29 AM
Subject: Fwd: RO Intel report
To: <ric@uber.com>

I had a long talk with Alberto this morning. I was disheartened by the fact that my legal priv training did not sink in even though this is almost identical to an example I had them all discuss and go through. The report itself and how this could have been handled better is for another discussion.

Craig Clark | Uber | Legal Director, Security
Mobile: [REDACTED]

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Begin forwarded message:

From: Alberto Fittarelli [REDACTED]
Date: February 9, 2017 at 10:14:12 AM EST
To: Craig Clark <craig.clark@uber.com>
Subject: Re: RO Intel report

And by that I mean - you **are** right, and I made a mistake :) I'd rather explain what I meant on the other point by voice.

Alberto Fittarelli
EMEA Security | Strategic Intelligence Lead
[REDACTED] [uber.com](mailto:[REDACTED]@uber.com)

On Thu, Feb 9, 2017 at 4:05 PM, Alberto Fittarelli [REDACTED] wrote:

Craig, the last thing I want to do is making that a conflict. Wanna have a call?

Alberto Fittarelli
EMEA Security | Strategic Intelligence Lead
[REDACTED] [uber.com](mailto:[REDACTED]@uber.com)

On Thu, Feb 9, 2017 at 4:01 PM, Craig Clark <craig.clark@uber.com> wrote:

UBER00355965

I don't know what the "other hand" is or what it has to do with making delicate privilege claims even harder due to blind use of macros or carelessness and setting a wrong/bad example for others. If you'd like to discuss specific examples of the "other hand" or misuse of the privilege I'm happy to do so.

Craig Clark | Uber | Legal Director, Security

Mobile: [REDACTED]

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On Feb 9, 2017, at 9:37 AM, Alberto Fittarelli [REDACTED] wrote:

You're right, and I apologize. On the other hand, the root issue of unsafe communication and action from the broader company remains unsolved, and I don't have an easy way to manage that.

Alberto Fittarelli

EMEA Security | Strategic Intelligence Lead

[REDACTED]@uber.com

On Thu, Feb 9, 2017 at 3:33 PM, Craig Clark <craig.clark@uber.com> wrote:

This really shows abuse of the ac priv statement like we talked about last week. Is thanking her really for my review and advice? It just proves overuse.

Craig Clark | Uber | Legal Director, Security

Mobile: [REDACTED]

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On Feb 9, 2017, at 9:04 AM, Alberto Fittarelli <alberto@uber.com> wrote:

Attorney / Client Privileged & Confidential - Craig, for your review, and legal advice.

Thanks Nicoleta, appreciate it.

Alberto Fittarelli

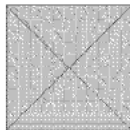
EMEA Security | Strategic Intelligence Lead

[REDACTED]@uber.com

Hi guys,
Thanks for the call again. See attached the report I mentioned.

Nicoleta

--



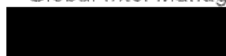
Nicoleta Schroeder
General Manager | Romania



uber.com

--

Ric Jacobs
Global Intel Manager



ric@uber.com | uber.com

EXHIBIT 38

**REDACTED VERSION
OF DOCUMENT
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EXHIBIT 39

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SOUGHT TO BE SEALED**

EXHIBIT 40

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EXHIBIT 41

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EXHIBIT 42

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EXHIBIT 47

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EXHIBIT 48

**REDACTED VERSION
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EXHIBIT 49

**REDACTED VERSION
OF DOCUMENT
SOUGHT TO BE SEALED**

EXHIBIT 42

**REDACTED VERSION
OF DOCUMENT
SOUGHT TO BE SEALED**

EXHIBIT 51

From: [Gonzalez, Arturo J.](#)
To: [James Judah](#)
Cc: [UberWaymoMoFoAttorneys](#); [BSF](#); [EXTERNAL](#); [UberWaymoLit](#); [John Cooper](#); [Matthew Cate](#); [QE-Waymo](#)
Subject: Waymo v Uber - Rhian Morgan Deposition
Date: Sunday, November 19, 2017 8:31:32 PM

9:00 a.m. Tuesday, limited to the receipts.

Sent from my iPad

On Nov 17, 2017, at 5:54 PM, James Judah <jamesjudah@quinnemanuel.com> wrote:

- External Email -

Counsel –

Is Ms. Morgan available for a continued deposition on Tuesday, November 21? We can agree to limit to 60 minutes, but cannot in advance agree to a 30 minute time limit.

Please let us know as soon as possible so that we can make the necessary arrangements. To the extent Ms. Morgan is not available on Tuesday, please let us know her availability on Wednesday morning.

Waymo reserves all rights regarding Uber's untimely production of the Shred Works receipts.

Best,
James

James Judah
Associate,
Quinn Emanuel Urquhart & Sullivan, LLP

50 California Street, 22nd Floor
San Francisco, CA 94111
415-875-6420 Direct
415.875.6600 Main Office Number
415.875.6700 FAX
jamesjudah@quinnemanuel.com
www.quinnemanuel.com

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EXHIBIT 52

From: [Andrea P Roberts](#)
To: [UberWaymoMoFoAttorneys](#); [BSF_EXTERNAL_UberWaymoLit](#); [Uber-sg@LISTS.SUSMANGODFREY.COM](#); "[John Cooper](#)"; [Matthew Cate](#)
Cc: [QE-Waymo](#)
Subject: Waymo v. Uber Discovery
Date: Wednesday, November 29, 2017 10:52:20 PM

- External Email -

Counsel:

I write regarding the Court's orders of yesterday and today regarding additional discovery. The Court ordered Uber to provide the following by Monday at noon:

- Ed Russo's presentation that he testified about on November 27, or confirmation that it does not exist. (11/27/17 Hearing Tr., 114:16-22) As we noted previously, Mr. Russo indicated that he may have shown the presentation to his boss or bosses boss so, at a minimum, they should be consulted as to whether they have it.
- A list of all of the Uber vendors "who had anything to do with non-attributable devices or had anything to do with ephemeral anything." (11/27/17 Hearing Tr., 147:1-4)
- "All documents in the entire company that have anything to do with ephemeral, anything to do with non-attributable devices, or anything to do with using contrived attorney-client privilege." (11/27/17 Hearing Tr., 147:10-15)
- An inventory of all of the non-attributable devices and who had them from December 1, 2015 to the present. (11/27/17 Hearing Tr., 153:21-155:8)
- An inventory of the Wickr accounts and who had them from December 1, 2015 to the present, as well as any other self-deleting communication system. (11/27/17 Hearing T., 153:21-156:10)
- Mr. Jacobs' personnel file, including his performance review (11/28/17 Hearing Tr., 156:10-11)

We expect that, to the extent Uber uses electronic searches to search for responsive documents, those searches will include everyone in the SSG and MA groups (including their predecessor groups), as well as other appropriate custodians. Please provide us with the list of custodians and any search terms Uber intends to use. Uber's searches, however, should not be limited to only search terms.

We will have additional document requests as well.

As for depositions, we will take depositions of at least the following individuals:

Richard Jacobs
Clayton Halunen
Ed Russo
Matt Henley

Nick Gicinto
Joe Sullivan
Craig Clark
Kevin Maher
Jake Nocon
Shawnee Delaney
Salle Yoo
Travis Kalanick
Lior Ron
Joe Spiegler
David Bonderman
Ariana Huffington

By tomorrow, please let us know which of these individuals are represented by Uber's counsel and which we should contact directly. For those not represented by Uber's counsel, please provide any contact information you have for them, including the contact information of any counsel Uber is aware that they have. We will meet and confer regarding the scheduling of these depositions. We also intend to serve a 30(b)(6) notice for a deposition of Uber relevant to the topics revealed in the Jacobs letter. We will provide that separately.

This list of discovery and depositions is not exhaustive, but given the expedited schedule we are providing our preliminary list of discovery now.

Thanks,
Andrea

Andrea Pallios Roberts
Of Counsel,
Quinn Emanuel Urquhart & Sullivan, LLP

555 Twin Dolphin Drive, 5th Floor
Redwood Shores, CA 94065
650-801-5023 Direct
650.801.5000 Main Office Number
650.801.5100 FAX
andreaproberts@quinnemanuel.com
www.quinnemanuel.com

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EXHIBIT 53



Source Code Analysis of gstumbler

Prepared for Google and Perkins Coie
Prepared by STROZ FRIEDBERG
June 3, 2010

STROZ FRIEDBERG

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I. Introduction

1. Stroz Friedberg, LLC ("Stroz Friedberg") is a consulting and technical services firm that specializes in digital forensics, data breach and cyber-crime response, on-line and traditional investigations, and electronic discovery. The firm was founded in February 2000 by Edward M. Stroz. For ten years, Mr. Stroz has been a leader in the computer security and digital forensics field, and has pioneered the use of a blend of behavioral science and digital forensics in addressing the insider threat. Before founding what was then Stroz Associates, Mr. Stroz founded and then ran the Computer Crimes Unit of the F.B.I.'s New York office during his sixteen year career with the Bureau. Eric Friedberg, Mr. Stroz's Co-President at Stroz Friedberg, hails from the U.S. Attorney's Office in the Eastern District of New York, where he was the lead cyber-crime prosecutor and the Chief of the Narcotics Unit during his eleven year tenure as an Assistant United States Attorney there. Mr. Friedberg is an expert in cybercrime response, computer forensic investigations, and electronic discovery. Messrs. Stroz and Friedberg, together with the firm's Executive Management, manage the firm's operations. Stroz Friedberg's principal offices are in New York (HQ), Los Angeles, Washington, D.C., London, Dallas, Minneapolis, San Francisco, and Boston. The firm has handled many significant, high-profile digital forensics matters, including a number of source code analyses in the civil, regulatory, and criminal arenas. Mr. Friedberg led the team that conducted the source code analysis in this case.

2. Stroz Friedberg was retained by Perkins Coie, on behalf of Google, to evaluate the source code of an executable deployed on the vehicles otherwise collecting data for Google's Street View service offerings. Specifically, we were asked to provide a third-party assessment of the functionality of the source code for a Google project named "gstumbler" and its main binary executable, "gslite," with particular focus on the elements of wireless network traffic that the code captured, analyzed, parsed, and/or wrote to disk. Stroz Friedberg has no stake in the outcome of this matter and has been asked by Google and Perkins Coie to render a neutral, technical opinion regarding the functionality of gstumbler. Stroz Friedberg is being compensated on a time and materials basis. The project team consisted of three primary examiners/code reviewers and two engagement managers, and our report was internally peer-reviewed by others in the firm.

3. Between May 20 and May 26, 2010, Stroz Friedberg received the gslite source code from Google. The gslite source code is comprised of approximately thirty-two source code files, along with twelve additional files including configuration files, shell scripts, source code repository changelog information, binary executables, and kernel modules. A full inventory of the reviewed source code files and shell scripts is provided in Appendix A. It is our understanding that the provided source code and accompanying shell scripts represent the most current version of the gstumbler application deployed as of May 6, 2010, on vehicles otherwise capturing data for Google Street View. Our findings regarding the application's functionality, based upon our review of the source code, are set forth below: first, in the Executive Summary, and then more specifically in the Overview of Findings and the body of this report.

A. Executive Summary

4. The executable program, gslite, works in conjunction with an open source network and packet sniffing program called Kismet, which detects and captures wireless network traffic. The program facilitates the mapping of wireless networks. It does so by parsing and storing to a hard drive identifying information about these wireless networks – including but not limited to their component devices' numeric addresses, known as MAC addresses, and the wireless network routers' manufacturer-given or user-given names, known as "service set identifiers," or "SSIDs." The "parsing" involves separating these identifiers into discrete fields. Gslite then associates these identifiers with GPS information that the program obtains from a GPS unit operating in the Google Street View vehicle. Gslite captures and stores to a hard drive the header information for both encrypted and unencrypted wireless networks.

5. While gslite parses the header information from all wireless networks, it does not attempt to parse the body of any wireless data packets. The body of wireless data packets is where user-created content, such as e-mails or file transfers, or evidence of user activity, such as Internet browsing, may be found. While running in memory, gslite permanently drops the bodies of all data traffic transmitted over encrypted wireless networks. The gslite program does write to a hard drive the bodies of wireless data packets from unencrypted networks. However, it does not attempt to analyze or parse that data.¹

B. Basic Technical Descriptions and Definitions

6. To understand the functionality of the gslite source code, and to understand the Overview of Findings set forth below in Section 1(C), it is important to understand the basic technical concepts critical to the architecture of wireless 802.11 networks and the transmission of data over such wireless networks.

7. Data is transmitted over the Internet via packet switching technology. Briefly, a communication transmitted via the Internet is broken up into "packets" at the point of origination, and the packets of data are routed from the originating device to various other computer devices on the Internet until they reach their final destination. Each packet is comprised of a packet header which contains network administrative information and the addressing information (or "envelope" information) necessary to transmit the data packet from one device to another along the path to its final destination. Each packet also contains a "payload" which is a fragment of the "content" of the communication or data transmission sent and received over the Internet; payload information can include, for example, fragments of requests for URLs, files transferred across the Internet, email bodies, and instant messages, among other things. The packets associated with a particular data transmission may travel over different routes across the Internet to reach their final destination; once they reach the destination device, the packets are reassembled to create the entire transmission.

8. A router is a device on a network that receives a data packet and transmits it to the next router or device on the network. A MAC address is a unique number assigned to a piece of networking hardware, such as a router, by that hardware's manufacturer. Each device and router on a wireless network has a MAC address uniquely identifying that machine.

9. Packets are encapsulated into larger data packages called frames for routing over various network types. Multiple specifications for the transmission of packets using frames have been promulgated by the Institute of Electrical and Electronics Engineers. This report focuses on

¹ From an analysis of the source code alone, we cannot ascertain the extent to which gslite captures of unencrypted wireless data would be fragmented or complete. Given the factors that the Google Street View vehicles can be moving or stationary and, as discussed below, the Kismet device is set to hop rapidly between wireless channels, the numerous wireless data packets that constitute any single user communication may or may not be captured by Kismet.

data transmitted over wireless networks pursuant to the 802.11 protocols, the specifications for which provide the international standard for the transmission of data over wireless networks operating in the 2.4, 3.6, and 5 GHz frequency radio bands.

10. There are three primary types of 802.11 frames, which contain information necessary to transmit data packets from one device to another over wireless networks. The three types of 802.11 frames are Control frames, Management frames, and Data frames, each of which is described below:

a. *Control Frames* control access to particular types of networks and facilitate exchanges of Data frames between wireless links. Control frames send the Request to Send (RTS) and Clear to Send (CTS) messages necessary to establish a connection between two links on a network prior to transmitting a data packet (sometimes referred to as a “two-way handshake”). Control frames also transmit the Acknowledgement (ACK) information once a Data frame is received by a link. A diagram of a generic Control frame is provided in Appendix B.1.

b. *Management Frames* contain information necessary to manage a data transmission over the network. Management frames contain, for example, authentication information, information necessary to allocate resources to a transmission, data transmission rates, SSIDs (i.e., network names), information necessary to terminate a connection, and periodic beacon signals. These properties are stored, in part, as Information Elements, that is, id-value pairs in the payload of Management frames. A diagram of a generic Management frame is provided in Appendix B.2.

c. *Data Frames* serve the function of encapsulating and transmitting packets of data over wireless networks. Generally, the body of each Data frame contains the “content” data of the encapsulated packet transmitted over the Internet, including such user-created data as email header information and bodies, URL requests, file transfers, instant messages, or any other communication over the Internet, as well as the addressing information for such transmissions. A diagram of a generic Data frame is provided in Appendix B.3.

d. Each of these frame types have numerous subtypes, which determine, among other things, the fields present in the 802.11 frame. A frame’s type and subtype information is stored in the *Frame Control* header field of the 802.11 frame, which is discussed in more detail below.

11. At a high level, an 802.11 frame can be considered to have two distinct sections: the header data and the body data. The header data is comprised of the Frame Control, duration or id, MAC addresses, sequence control number, and quality of service, or QoS, control information. The body data is comprised of the frame body component of an 802.11 frame, to the extent the frame’s type and subtype calls for this field. As noted, the body of a Data frame may contain packet content data.

12. A diagram of a generic 802.11 frame showing its various components is below:

2 Bytes	2 Bytes	6 Bytes	6 Bytes	6 Bytes	2 Bytes	6 Bytes	2 Bytes	0 – 2304 Bytes	4 Bytes
Frame Control	Duration/ID	Address 1	Address 2	Address 3	Sequence Control	Address 4	QoS Control	Frame Body	FCS

Figure 1. Generic 802.11 Frame Format.

The Frame Control, Duration/Id, Address, Sequence Control, and QoS control fields are considered the 802.11 *frame header*, while the frame body contains the payload data previously discussed. The FCS field contains checksum information used to confirm that the wireless frame was accurately received.

13. Every 802.11 frame contains a 16 bit Frame Control field that contains information regarding the status of the frame and the wireless transmitter of the frame. Specifically, the Frame Control field contains the following properties: Protocol Version; Type; Subtype; To DS; From DS; More Fragments; Retry; Power Management; More Data; Protected Frame; and Order. The Type field is a two bit field that will be 00, 01, or 10 to indicate if a frame is a Management, Control, or Data frame respectively, and the Subtype is a four bit field used to specify the frame's subtype. The To DS and From DS fields are single bit values that specify the routing of the 802.11 frame across the wireless network.

14. The Protected Frame bit in the Frame Control field is also known as the frame's "encryption flag." The Protected Frame field is a single bit which identifies whether the wireless network's transmissions are encrypted; it has no relation to the payload within any Data frame or whether that encapsulated packet transmission is itself independently encrypted. For example, if a fragment of a secure, encrypted HTTP session (HTTPS) were encapsulated in the payload of a Data frame on an unencrypted wireless network, the Data frame's encryption flag would still be set to "0", i.e. "false", indicating that the frame is unencrypted. The 802.11w-2009 amendment to the 802.11 specification, which was approved on September 11, 2009, provides a mechanism to also encrypt unicast Robust Management frames, which will result in the Protected Frame field being set to "1", i.e. "true."

15. Each 802.11 frame type contains at least one MAC address associated with the wireless local area network (LAN). 802.11 frames can contain up to four such MAC addresses associated with a particular wireless LAN.

16. Each wireless network has a public name, known as the SSID. The SSID name may be set by the owner of the wireless network. The SSID can be publicly broadcast to all wireless devices within its range. The broadcast feature also can be disabled so that the SSID for a particular wireless network is not readily visible to devices seeking wireless networks even though the SSID is still ascertainable from the transmitted packets.

17. The 802.11 wireless specifications divide each of the frequency bands into *channels*, analogous to TV channels. The division is regulated by individual countries, resulting in different locales having different numbers of permitted channels in each band. For example, in European countries, the frequency bands are regulated such that transmission is permitted across thirteen overlapping channels between 2.4 and 2.4835 GHz, each of which is 5 MHz apart and 22 MHz in width. A particular communication is transmitted over only one channel; thus, to the extent a packet sniffer is set to "hop" through channels—similar to changing a radio or TV channel—it may only collect fragments of a particular communication.

C. Overview of Findings

18. Using the more technical terminology in the above section, we expand on our high-level findings.

19. As set forth above, the executable program, gslite, is an 802.11 wireless frame parsing and collection tool that associates GPS coordinates with wireless network frames. While running in memory, the program parses frame header information, such as frame type, MAC addresses, and other network administrative data from each of the captured frames. The parsing separates the information into discrete fields for easier analysis. In addition, per-packet information regarding the wireless transmission's strength and quality is captured and associated with each frame. All available MAC addresses contained in a frame are also parsed. All of this parsed header information is written to disk for frames transmitted over both encrypted and unencrypted wireless networks.

20. The gslite program discards the frame bodies of 802.11 Data frames sent over encrypted wireless networks. The program inspects the encryption flag contained in each frame header to determine whether the frame is encrypted, i.e., whether it is being transmitted over an encrypted wireless network. If the encryption flag identifies the wireless frame as encrypted, the payload of the frame is cleared from memory and permanently discarded. If the frame's encryption flag identifies the frame as not encrypted, the payload—which exists in memory in a non-structured bit stream of ones and zeros—is written to disk in a serialized format, as further described below.

21. The gslite program parses Management frame bodies and stores the parsed data as "Information Elements." The gslite program also parses Control frames' subtype information before writing it to disk. By contrast, gslite does not parse Data frames' bodies, which may contain user-created content. Rather, unencrypted Data frames' bodies pass through memory unparsed and are written to disk in their unparsed format. (Again, encrypted frame bodies are dropped entirely.)

22. As set forth above, the gslite source code includes logic that examines wireless frames' type and encryption status, and determines whether to discard them in whole or in part. The default behavior of gslite is to record all wireless frame data, with the exception of the bodies of encrypted 802.11 Data frames. The gstumbler application is configurable through the use of command line arguments that make it possible to specify, at the time the program is run, what types of wireless frames to record. Based on our review of the provided configuration files and shell scripts used to launch gslite, prior to May 6, 2010, the gstumbler application used the default configurations described above, which is to say that all wireless frame data was recorded except for the bodies of 802.11 Data frames from encrypted networks.²

II. Overview and History of gstumbler, gslite, and Kismet

23. The source code reviewed is from a project referred to at Google as "gstumbler." According to internal Google documentation, gstumbler was first created and used in 2006. At that time, the program executable was itself also named "gstumbler," but at some point in or after late 2006, the executable deployed to vehicles otherwise capturing data for Google's Street View services was revised and renamed "gslite." The gslite program is the focus of this source code review. In this report, "gslite" refers to the specific executable program for which Stroz Friedberg reviewed the source code; and "gstumbler" refers to the overall application, including the configuration files and shell scripts that the Google Wifi project has used to detect and collect wireless network data.

24. The gslite source code is written in C++. C++ is an object oriented programming language, where objects are defined as data structures comprised of properties and methods, i.e. values and functions. An "object" refers to an instance of a data structure in memory. The gslite program makes use of object oriented programming to represent 802.11 frames in memory, parsing the raw frame data and storing its structural elements in a Dot11Frame object as defined in the source code file packet.proto. The Dot11Frame object is defined using a framework called Protocol Buffers, which was developed at Google to provide a means for writing complex data structures to disk. Protocol Buffers are discussed more fully in Appendix C.

25. The gslite program parses some, though not all, information from 802.11 wireless frames read in from a source of wireless frames. It simultaneously receives geolocation coordinates from a GPS system and then associates each wireless frame with the time and approximate location in which it was received. The gslite program works in concert with a second program, Kismet, which must run simultaneously. Kismet controls one or more wireless cards on a Google vehicle

² It is our understanding that on May 6, 2010, in response to regulatory attention, the gstumbler shell script was revised to disable *all* Data frame capture. We have inspected that revised shell script and have confirmed that revision.

and provides gslite with the stream of detected wireless frames. The relationship between gslite and Kismet is depicted in Figure 2.

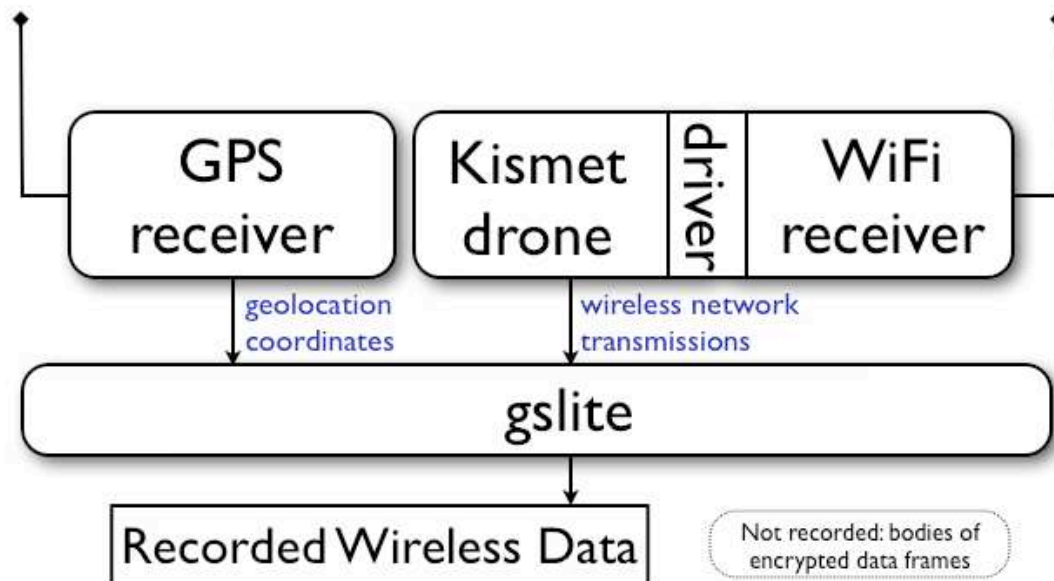


Figure 2. Inputs to gslite.

26. Kismet is a freely available, open-source application for wireless network detection and packet sniffing. Kismet captures wireless frames using wireless network interface cards set to monitoring mode. The use of monitoring mode means that Kismet directs the wireless hardware to listen for and process all wireless traffic regardless of its intended destination. Kismet captures wireless frames passively, meaning that that Kismet receives such transmissions without actively transmitting to nearby wireless networks. Kismet only detects packets passively. Through the use of passive packet sniffing, Kismet can also detect the existence of networks with non-broadcast SSIDs, and will capture, parse, and record data from such networks.

27. Kismet is a standalone application capable of capturing and filtering wireless frames. However, it can also be deployed in a configuration called a “drone,” which does not record or analyze network traffic but instead forwards captured traffic to a server listening for such traffic. The Kismet drone program places a Kismet header describing the properties of the wireless transmission in front of the raw 802.11 frame and passes it to gslite for further processing. The gslite application listens for data from a Kismet drone running simultaneously within the Street View vehicle.

28. A Kismet drone is configured through the use of a file named `kismet_drone.config`, which provides, among other things, instructions for Kismet to “channel hop.” Channel hopping is the act of cycling through numerous 802.11 channels per second in order to capture frames from as many nearby networks as possible. In the `gstumbler` project, Kismet’s configuration file is created using a predefined template file, and entries in Google’s template instruct the drone to change wireless channels five times per second, as shown below (`kismet_drone.conf.template` lines 37-41):

```
# Do we channelhop?
channelhop=true

# How many channels per second to we hop? (1-10)
channelvelocity=5
```

As discussed above, the number of permitted channels for broadcast in a given frequency is regulated by a country's local authorities, and the number of permitted channels for broadcast in a frequency ranges between 11 and 14. The `kismet_drone.conf.template` file directs which channels should be monitored and the order through which they are hopped. In the United States, for example, there are 11 channels that may be used to wirelessly transmit data within the 2.4 Ghz band. Accordingly, when configured for the United States, Kismet listens to each of the 11 channels for one fifth of a second, thus listening to every channel for one 0.2 second interval during each 2.2 second channel hopping cycle.

III. Scope of Review and Methodology

29. Upon receipt of the `gslite` source code, Stroz Friedberg conducted a high-level review of the `gslite` framework code and associated modules. The purpose was to understand the basic logic flow and functionality of the program, and the significance and dependencies of the various components.

30. Based on our high level review, Stroz Friedberg identified key modules and dependencies for closer scrutiny, and assessed the significance of Google commands and code modules called from libraries external to the `gslite` code for use within the program. We received confirmation that particular functions and modules were borrowed from standard, shared libraries within Google. Because we also confirmed that such functions and codes were not customized for use in `gslite`, but were merely imported to perform standard functions, we focused on the core functionality and key programming modules unique to `gslite`.

31. We also did not independently review the Kismet program. As noted above, 802.11 frames initially are captured by the Kismet program, an open source packet sniffing program. It is our understanding based upon representations from Google that Kismet source code was not modified or adapted in any way as part of the `gstumbler` project.

32. We compared 802.11 frame specifications to the `gslite` frame parsing parameters encoded into the program to verify that the code's parameters are consistent with the specifications. That is, if the code parses particular bits of frame header information to determine, for example, the type of frame or whether the wireless network is encrypted, we confirmed that the program looks at the correct frame bits to parse the expected field from the raw data.

33. We closely scrutinized the parsing functionality of the `gslite` program as it pertains to each type of 802.11 frame. We determined how different types of frames are parsed, the different fields parsed for each frame type, what 802.11 frame fields are written to disk in parsed formats versus raw formats, and what 802.11 fields are discarded and not written to disk.

34. We analyzed the overall structure of code to determine the program's default behavior and the ways in which default behavior may be changed by command line arguments. We also examined the command line configuration settings over the course of `gslite`'s deployment.

35. We confirmed our understanding as to other secondary functions of the program, including its logic to detect bad frames and not process them, its diagnostic capabilities for assessing proper functioning of the program, its calculation and correlation of GPS geolocation information with detected wireless networks, and its decision as to how and when to write data to disk.

36. Stroz Friedberg did not receive or analyze earlier versions of the `gslite` source code or its predecessors. We did, however, review the modification history and did not observe significant changes to the program regarding how frames are parsed and recorded. We also reviewed all available versions of the shell scripts used to launch Kismet and `gslite` to verify what command line arguments were used.

IV. Detailed Analysis and Findings

A. *Source Code Flow and Functionality*

37. At the highest level of description, Google's gstumbler program creates a series of servers and objects that interface with the Google Street View vehicle's GPS system and the Kismet drone, pulls wireless frames from a stream provided by the Kismet drone, and then assigns timestamp and geolocation information to each wireless frame it encounters, saving the results to disk. The general description of how gstumbler operates is illustrated in Figure 3, below, and in the following paragraphs.

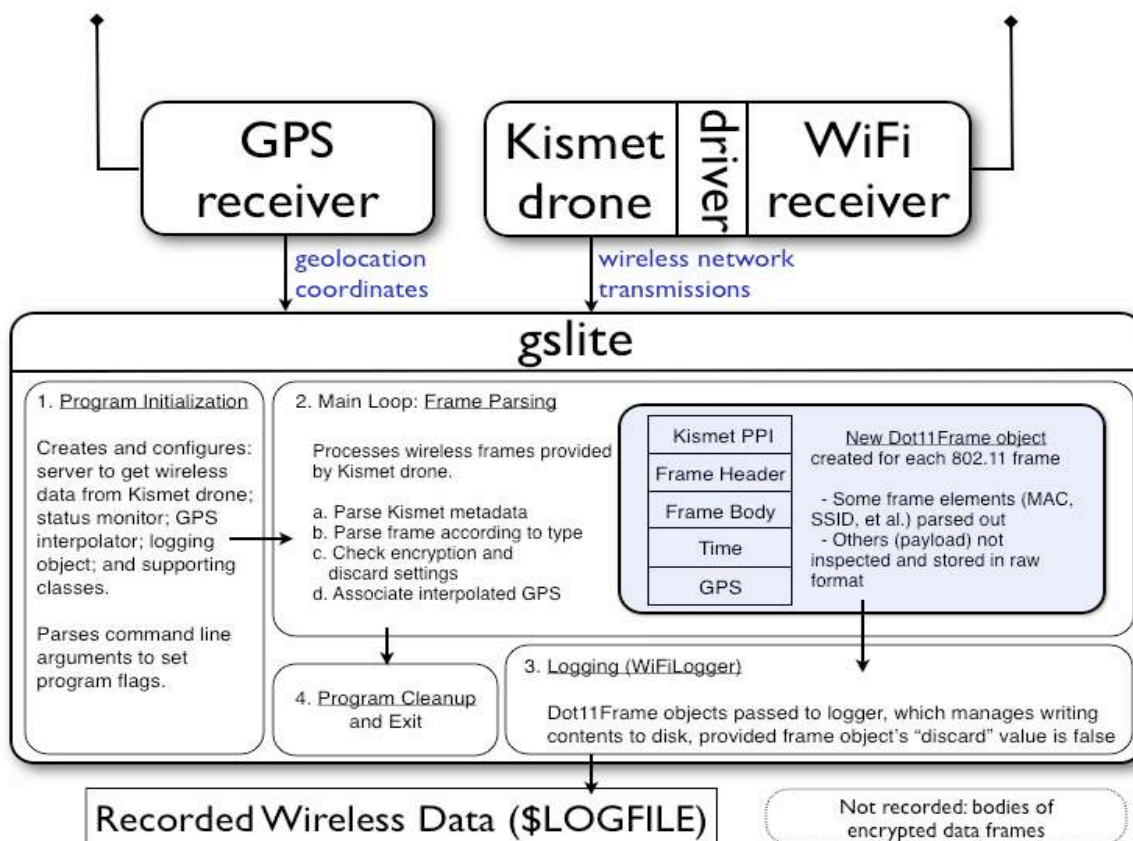


Figure 3: High-level representation of gslite program execution

38. The program first parses any command line arguments passed to it from the shell script, `run_gstumbler`, used to launch `gslite`. The program starts and configures a series of services, including, but not limited to: a `WifiRecordLogger`, which manages the storing of 802.11 frame data to disk; and a `WifiLiteServer` object, which listens for Kismet data on a predefined port.

39. For each frame being processed, the program creates a new `Dot11Frame` object in which to store the parsed 802.11 frame fields, along with a pointer to it. The `Dot11Frame` is a data structure that is built using Google's Protocol Buffers libraries. As noted previously, information about `Dot11Frame` objects and Protocol Buffers in general is provided in Appendix C.

40. The program parses the per-packet information (PPI) header information Kismet affixes to a captured 802.11 frame. PPI includes the quality of the signal, the signal strength, the signal noise, if the capture source indicated there was an error in the capture to Kismet, transmission channel, the signal carrier, the signal encoding, and the data transmission rate. The program

also sets the Dot11Frame's time received, time sent, and raw data properties to match those of the corresponding incoming frame.

41. The program proceeds to parse the 802.11 frame as described more fully in section B, below. The gslite program runs the Parse() method of a number of PacketParser objects against the incoming 802.11 frames: Dot11ParserImpl::Parse(); CtrlParserImpl::Parse(); MgmtParserImpl::Parse(); and TruncateParserImpl::Parse(). Although the forms of information available in a given frame vary according to its type and subtype, the packet parsers are applied to all frames regardless of type. The parsing process populates numerous properties of the Dot11Frame object with information extracted from the 802.11 frame. Parsing does not include inspection of the bodies of Data frames.

42. During the TruncateParserImpl::Parse() parsing function, gslite reads the encryption flag on each frame. That bit is located within the second byte of the Frame Control on an 802.11 frame. If the encryption flag is set to "true," then the frame's body, or payload, is cleared from memory and permanently discarded. If it is "false" the frame's body is retained for writing to disk.

43. The GPS interpolator associates geolocation coordinates with the frame and writes the coordinates into the Position property of the Dot11Frame.

44. The parsed 802.11 frame object is written to disk using WriteProtocolMessage() method of the RecordWriter object. In the case of Management frames, the body is written to disk as parsed Information Elements, while in the case of unencrypted Data frames, the body is written to disk in unparsed format. It is our understanding based upon representations from Google that the RecordIO module, used to write the Dot11Frame objects to disk, is a common shared library within Google, and it is utilized unchanged in gslite.

45. The main loop of the program continues parsing, collecting, and geolocating each 802.11 frame as it is detected and forwarded by the Kismet drone. An interrupt signal sent from a user or from the operating system will cause the program to exit the main loop, clean up objects in memory, and exit.

46. The gslite program also writes logging information, largely regarding program status and error conditions, to a default system location. Our review found one line of code that, when executed, writes the content of a wireless frame to disk, through the use of a protocol buffer method for formatting a data structure as a string (scanner.cc lines 114-115):

```
if (!parser_>Parse(frm)) {
    LOG(ERROR) << "Error parsing frame: " << frm->ShortDebugString();
```

The second line of code above writes the wireless frame to disk, including its body, regardless of frame type or encryption flag. However, the program only performs this logging when a wireless frame cannot be successfully parsed and the Parse() method returns false. Our review of the Parse() method determined that this condition is met only when a frame's length is too short to constitute a valid frame header. In such an event, the frame also would be too short to contain a frame body. Furthermore, any such invalid frame would be discarded by Kismet or the wireless card prior to being forwarded to gslite. Accordingly, the circumstances necessary to invoke this logging action preclude the possibility that frame payload content would be written to the error log.

47. During execution, gslite also reports certain diagnostic information in HTML format to the HTTP server to provide in-vehicle feedback regarding the status and operating state of gslite. This status monitor does not write output to disk.

48. Finally, we note that the gslite source code contains functions and methods that are never executed, and which appear to constitute vestigial or uncalled code. Stroz Friedberg

inspected such code but found no control flow that would lead to the execution of such code areas.

B. Frame Parsing

49. Following capture of the data by Kismet, gslite uses a Dot11Frame object to represent the structure of an 802.11 frame in memory, prior to writing the frame to disk. The gslite program processes these Kismet packets by removing the Kismet header, and then processing the underlying raw data, which is an 802.11 frame.

50. "Parsing" a property of an 802.11 frame results in its value being assigned to a property of Dot11Frame object, making it readily accessible for further analysis by gslite without additional decoding. Some 802.11 frame fields are analyzed by gslite and never assigned to a specific property of the Dot11Frame field object. Only some 802.11 frame fields are assigned to properties of Dot11Frame objects in their parsed form by gslite prior to being written to disk; others are stored in memory in a property field named "raw" and are written to disk without being further processed. By default, in the case of encrypted 802.11 Data frames, the frame's body, which was temporarily stored in the Dot11Frame's raw field, is cleared from memory and never written to disk.

51. Specifically, gslite parses all available 802.11 frame header information and stores those properties in memory in a Dot11MacHeader object. The remaining frame data, the body, is stored in its raw form in the raw property field of a Dot11FrameBody object. A Dot11MacHeader object is a representation of the 802.11 frame header in the memory of a computer. Similarly, a Dot11FrameBody is a representation of the body or payload of an 802.11 frame body.

52. The Dot11MacHeader's properties and the Dot11FrameBody object may be further analyzed or parsed depending on the type of frame. Dot11FrameBody objects contain ManagementFrameBody and ControlFrameBody objects to represent metadata specific to Management and Control frames respectively:

- a. Control frames undergo the least additional analysis as they contain comparatively less data than other frame types. Only the subtype information from an 802.11 Control frame's Frame Control field will be parsed and stored in memory as its own parsed property.
- b. Management frames, which contain the administrative information necessary to manage wireless transmissions, undergo both additional analysis, and parsing. Management frames' Frame Control properties are analyzed to determine the values of the To DS and From DS fields, which indicate the number of MAC addresses within the frame; however, these values are not stored in their own property fields in memory. Furthermore, Management frames' bodies are parsed and stored as a series of Information Elements in the ManagementFrameBody's collection of InformationElement objects. Included in the Information Elements properties is the SSID. The gslite program parses and stores the SSID information for all wireless networks, whether the SSID is broadcast or not. Any extra data stored in the ManagementFrameBody is stored in the "extra" property. Once this process is complete, the raw property of the Dot11FrameBody object is then cleared for Management Frames.

53. Although Data frame header information is further analyzed during the parsing process, Data frame bodies are not parsed. Specifically, gslite analyzes a Data frame's Frame Control field to determine the values of the To DS and From DS fields contained therein; however, these values are not parsed or stored in their own properties in memory.

54. In summary, the parsing function of the gslite program does the following:

- a. All 802.11 frames have all of their available 802.11 frame header information parsed and stored in properties of a Dot11MacHeader object in memory, regardless of frame type. A frame's body will be stored as raw data in a Dot11FrameBody's raw property, and this raw data may be further parsed if the frame is a Management Frame. The frame type information from a frame's Frame Control field is parsed and stored in memory as its own value, regardless of frame type.
- b. If the frame is a Control frame, the subtype information from the Frame Control field will be parsed and stored in memory as its own value. No additional parsing is performed on Control frames.
- c. If the frame is a Management frame, the To DS and From DS fields from the Frame Control field are analyzed, but are not parsed and stored in memory as their own properties. Management frame bodies are parsed and stored as a series of Information Elements in ManagementFrameBody's collection of InformationElement objects (which is in the Dot11Frame's Dot11FrameBody object). Any extra data in the body is stored in the ManagementFrameBody's "extra" property, and the "raw" property of the Dot11FrameBody object is cleared.
- d. If the frame is a Data frame, the To DS and From DS fields from the Frame Control field are analyzed, but are not parsed and stored in memory as their own properties. Data frame bodies are not parsed. As discussed more fully below, the body of a Data frame is discarded if the Protected Frame bit is set to "true", which indicates the frame is encrypted; otherwise, the body is written as unparsed data to disk.

C. Default Settings Governing Discard of Data and Writing to Disk

55. After gslite's program logic parses each 802.11 frame according to its type, a Dot11Frame object exists with all available frame properties parsed and stored in the appropriate property fields. At this point in the execution of the program, the program's settings are checked to determine whether or not to retain the current frame data in whole or in part.

56. By default, gslite records all wireless frame data, except for the bodies of Data frames from encrypted wireless networks. The code governing whether data elements of a frame should be retained or discarded occurs in the file "packetparserimpl.cc." Four variables, or flags, are assigned default Boolean values to establish the program's default behavior regarding what to discard from memory and what to retain. In particular, the default settings, as shown below, are set to discard the bodies of encrypted frames³ and to retain everything else (packetparserimpl.cc lines 14-21):

```
DEFINE_bool(discard_encrypted_body, true,
            "Discard bodies of encrypted 802.11 frames");
DEFINE_bool(discard_control_frame, false,
            "Discard 802.11 control frames");
DEFINE_bool(discard_data_frame, false,
            "Discard all 802.11 data frames");
DEFINE_bool(discard_management_frame, false,
            "Discard all 802.11 management frames");
```

³ Although a Management frame of the subtype Authentication would have its encryption flag set to "true," the sequence of the execution path causes such Management frame bodies to be stored in the "extra" property and written to disk. Management frames do not contain user content.

57. The same file, `packetparserimpl.cc`, contains the code that checks each wireless frame processed and determines whether or not to retain it in whole or in part, based upon the Boolean values of the flags defined above. The program checks to see whether the “discard_encrypted_body” flag is set to “true”, which is the default setting. If so, `gslite` checks the frame being parsed to see whether its encryption flag is set to “true.” If both checks return “true” then the frame is encrypted and the program discards the encrypted frame’s body. The frame body is cleared, using the accessor method `clear_body()`.

```
if (FLAGS_discard_encrypted_body && PacketUtil::IsEncrypted(f)) {
    // Discard just the body of encrypted frames
    f->clear_body();
}
```

Subsequently, when the remainder of the frame is written to disk, its body is not recorded.

58. The program checks the type of the frame being parsed (that is, whether it is a Control, Data, or Management frame) and then checks the value of the corresponding Boolean flag from among the discard flags above. If it is “true”, the discard flag of the current frame object is set using the `Dot11Frame` accessor method `set_discard(true)`.

```
switch (PacketUtil::Type(f)) {
case Dot11FrameBody::CONTROL:
    if (FLAGS_discard_control_frame)
        f->set_discard(true);
    break;
case Dot11FrameBody::DATA:
    if (FLAGS_discard_data_frame)
        f->set_discard(true);
    break;
case Dot11FrameBody::MANAGEMENT:
    if (FLAGS_discard_management_frame)
        f->set_discard(true);
    break;
default:
    break;
}
```

59. At a subsequent point in program execution when a parsed frame is to be written to disk, the discard flag of the frame object is checked: if the flag is set to “true”, the frame is not written to disk (`scanner.cc` lines 105-111):

```
void WifiScanner::TryLog(Dot11Frame * frm) {
    if (is_logging_ &&
        logger_ &&
        !frm->discard() &&
        !logger_->Write(frm))
        LOG(ERROR) << "Error writing to log";
}
```

D. GPS Interpolation

60. The onboard GPS system provides geolocation coordinates at some rate slower than the rate at which wireless frames can be received. Accordingly, `gslite` interpolates the position at which each wireless frame was received and associates the interpolated position with the frame object. Stroz Friedberg’s review of source code relating to GPS coordinate interpolation found no code execution paths that would affect the wireless data written to disk by `gslite`.

E. Command Line Arguments in Configuration Files

61. The Boolean flag definitions set forth in section C above provide the default program behavior. However, the flags can be superseded by command line arguments defined in accordance with Google's coding standards. The first line of code executed by gslite processes any and all command line arguments (see gslite.cc lines 12 and 128-129, below). It is our understanding from Google that InitGoogle(), a method defined outside the scope of the provided source code, sets the values of program variables using the command line arguments. The Google standards for using command line flags is documented at <http://google-gflags.googlecode.com/svn/trunk/doc/gflags.html>.

```
#include "base/commandlineflags.h"
...
int main(int argc, char** argv) {
    InitGoogle(argv[0], &argc, &argv, true);
```

62. Command line arguments will supersede the default values for the discard and encryption flags discussed above and change the behavior of gslite. Since the flag "discard_data_frame" is false by default, gslite will discard entire Data frames if and only if the flag "discard_data_frame" is run on the command line at the time of program execution (or until such time as the default behavior is revised in source code).

V. Conclusion

63. Gslite is an executable program that captures, parses, and writes to disk 802.11 wireless frame data. In particular, it parses all frame header data and associates it with its GPS coordinates for easy storage and use in mapping network locations. The program does not analyze or parse the body of Data frames, which contain user content. The data in the Data frame body passes through memory and is written to disk in unparsed format if the frame is sent over an unencrypted wireless network, and is discarded if the frame is sent over an encrypted network.

APPENDIX A**INVENTORY OF REVIEWED SOURCE CODE FILES AND SHELL SCRIPTS**

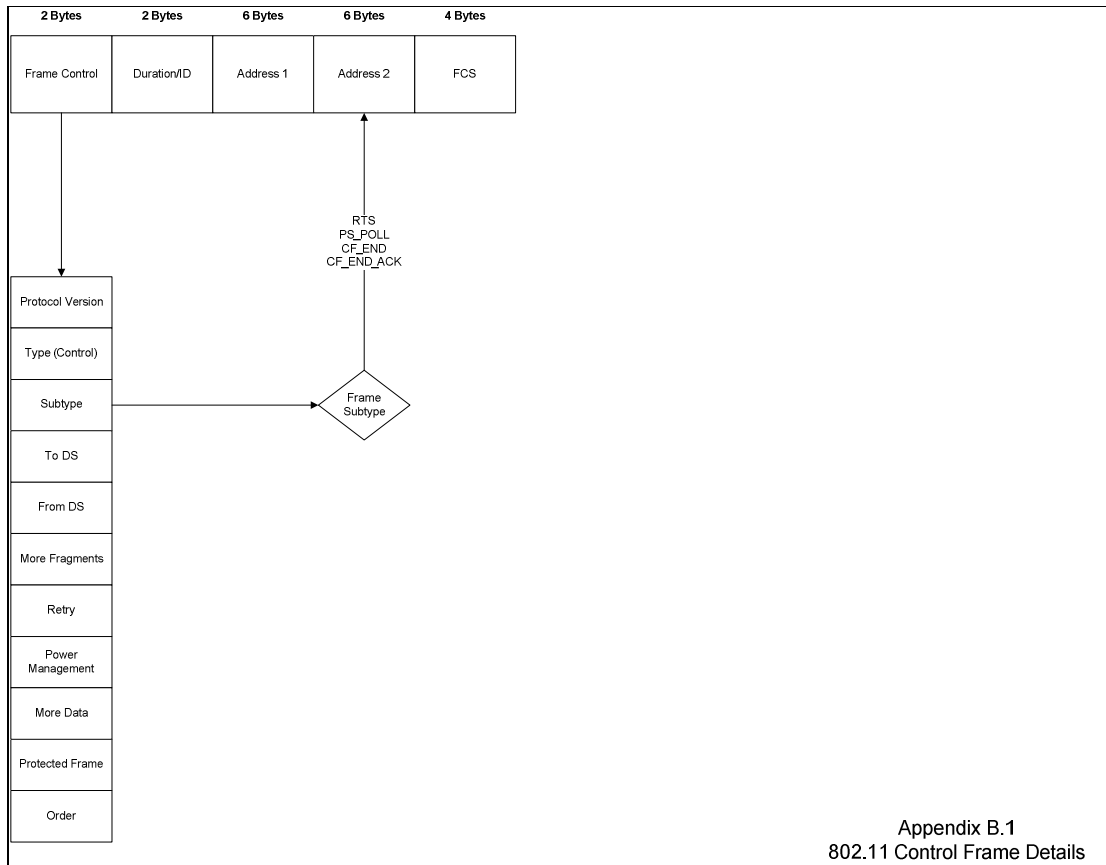
Stroz Friedberg reviewed the following provided C++ source code, configuration files, and shell scripts as part of its static source code analysis. The dates of last modification are derived from the compressed tar files in which the source code was provided and are believed to correspond to the dates of modification of official, checked-in source code.

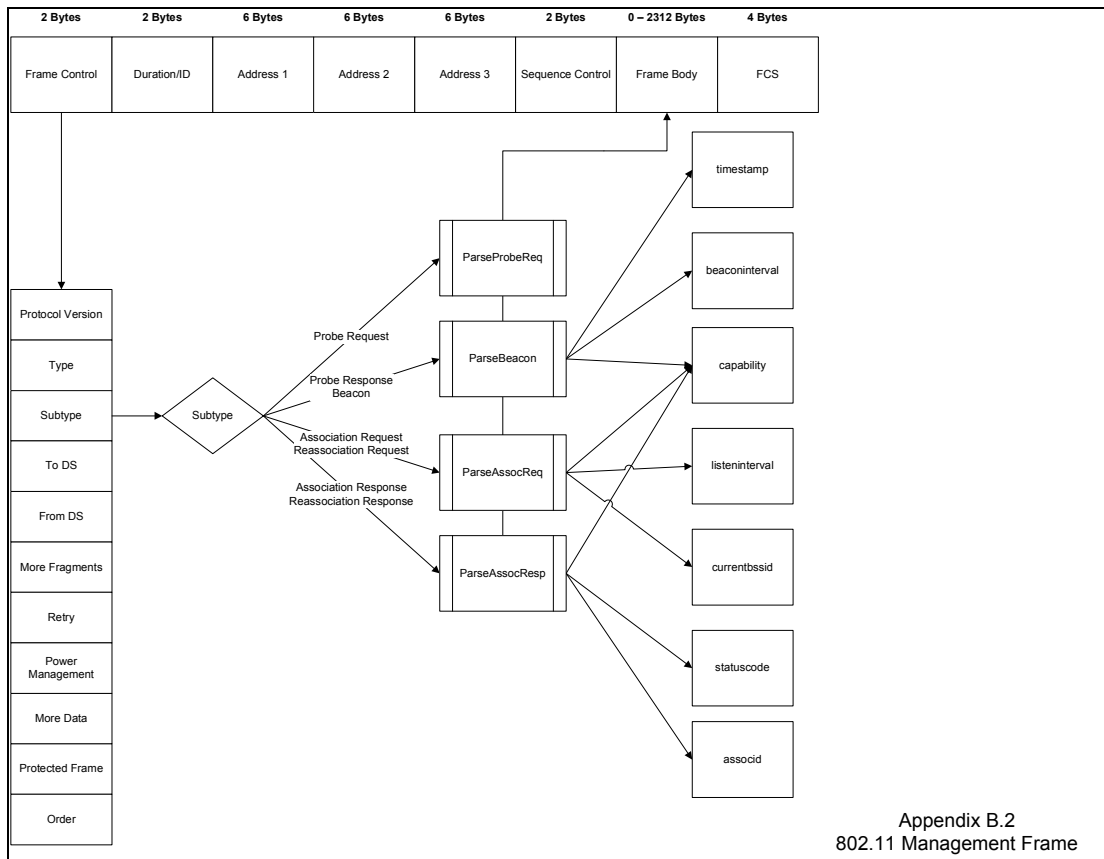
File Name	Last Written On	SHA-1 Hash Value
gstumbler Source Code Provided as gstumbler-src.tgz on 5/20/2010		
BUILD	7/1/2009	7de19d35307cfdc9fc8c03c9d8d44aee3cebcbaa
gps_messages.h	3/31/2010	aa9cef443f3e1352056751cdc3ca8d35705cbf1f
gps-interpolator.cc	11/7/2007	37001680b7e4acd0410fd890523fa911371cdf63
gps-interpolator.h	4/30/2008	688d310771e66e2ecc92c7069059bda2e378d1d8
gps-interpolator_test.cc	2/2/2010	21e241b6cdb0ae65f2d395f38d5541d0ef2b3ed8
gps-ipc.cc	3/31/2010	2413c0538add232332fa25ba1498274f54e2d76f
gps-ipc.h	3/31/2010	175193adb5116594e6f644c9b9bb8a9920476d8a
gps-ipc_test.cc	3/31/2010	3ea76455f6fd12391c6e60ad9d8b0fe9bffb0db4
gslite.cc	3/31/2010	796c67b420ffd5ff0afbc65c42c07d08256686d3
gstumbler.cc	4/30/2008	2104989fdc44b9c53acbf5bc6857ee8f1fc2594e
gstumbler-run.sh	3/5/2007	e5045fac3b9e6de3ce36b3b797e504a9c741254a
kismetconnection.cc	6/19/2009	4b3cb2dcfef03c53bdf3f46088039c1105d29fe3
kismetconnection.h	6/19/2009	cacb6ca54136cc1bcf3a64f9a54a25b4939f2a7f
logger.cc	11/7/2007	03f2733398191d36fae6297564b455086bdfda83
logger.h	11/7/2007	83df2ff3e50f5e070af8f4acf1c032ca6a2f8682
monitor.cc	10/31/2006	7b5381eb9adeb12e09589f84e817f170bc783ade
monitor.h	10/31/2006	64870c0f3df0b169ef352b0c3f920bd48ff6073c
packet.proto	3/31/2010	872e43bb2477b3d50dfdd34f68adad7290f49f6c
packetparser.cc	10/31/2006	f42687c8f5bef580ce46476eb840e002280d969
packetparser.h	7/1/2009	3855b17808778d752824ea6a2efbe875307933ac
packetparser_test.cc	2/2/2010	dc795a3e99ec890db87d1e97ac835ed3f74a3f7b
packetparserimpl.cc	10/31/2006	ec094b96ab14ba7bf251160ad6d3285d4fa3a714
packetparserimpl.h	10/31/2006	d8f5c40b3954133c8be46e6cabf9f23f91de6ecc
packetsource.cc	10/31/2006	bfe6dec9aa9d4a4095c0ad34c9f103b7344154d5
packetsource.h	3/4/2010	69f2b4ffa32e925e56bdf0f56097cf5bd7ce0ed9
packetsourceimpl.cc	12/16/2009	75828b368c1682ebac547c1193e9d3fbcc27f54a
packetsourceimpl.h	7/1/2009	bff09f7f55cdd080eaf1d9057a8a33c1d9cbb8f8
packetutil.h	1/28/2008	8dedee1c5b43811bd7a16ea9b5afc58b69adf2f2
resources\drive_status.tpl	10/18/2007	065c489ee01d5de2ff85f92829fceebed58359e9
scanner.cc	3/31/2010	33d4a92a87a679faf0932e492ffbe6cf32a9534a
scanner.h	3/31/2010	4a869a3f54a4f2662c09b8fd90e4e14bf631cb83
scanner_test.cc	2/2/2010	7a8004d0c19cc1337ca9cb888bd3f7830a26413b
Configuration files and shell scripts -- most recent versions Provided as gstumbler-config.tgz on 5/20/2010		
config_interfaces.sh	5/18/2010	51c00340e9744dda850ca0ee546bcce067327caa
kismet_drone.conf.template	5/18/2010	f5bd93b3fc1ba8ada0827cc04fc6ca5c24aab99c

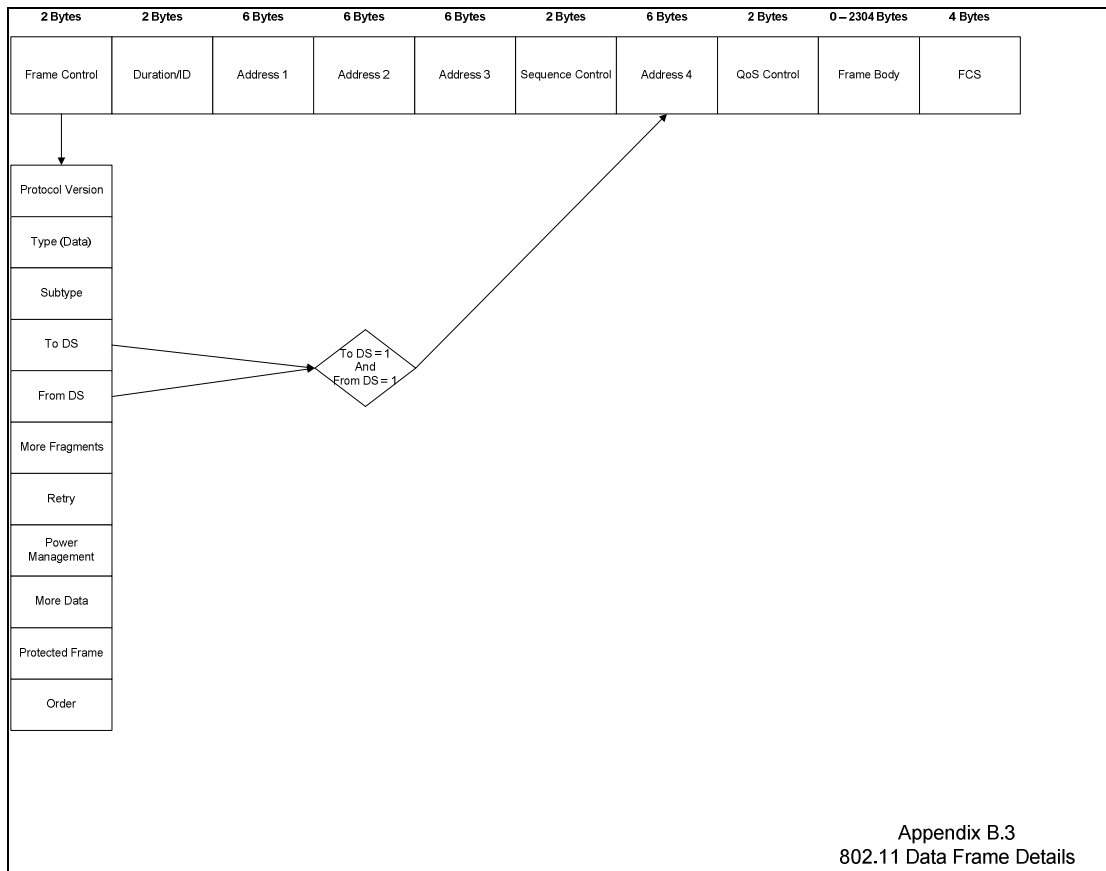
run_gstumbler.template	5/18/2010	7b3aacb15f8b878b8bd91d34242c6b4a1e958691
run_kismet	5/18/2010	7c8b2b13061b6cb8280256556910d56b93848a20
Configuration files and shell scripts -- historical versions Provided as gstumbler-scripts2.tgz on 5/26/2010		
config_interfaces.sh#1	5/26/2010	7b85ea7c7babd7a7f15f0caa1fc1e3a2814f9d75
config_interfaces.sh#2	5/26/2010	faeeebfae425597af82acebdedccc2c972088b10
config_interfaces.sh#3	5/26/2010	5816de44b2cf67116958e7bd35240bf1f3186953
config_interfaces.sh#4	5/26/2010	fc5ee14d002970d532ec55cee09962959b78d28b
run_gstumbler.template#1	5/26/2010	9a718b8727a2c590e670fc08ea27fa4818309253
run_gstumbler.template#2	5/26/2010	4f4ca3f5d2175eecdaf1c104a8aba702cce34778
run_kismet#1	5/26/2010	27df00844852cd7e0070d82324ab5cc2fb81881c
Supporting library for managing record writing Provided as bulkstorage.tgz on 5/26/2010		
bulkstorageblock.h	11/1/2006	d7240f808766bd718e80f1293dcaba95ff50af18
bulkstoragewriter.cc	3/12/2007	e361e6c9d16cc64af15bb3df6a6cfd58e049b6f
bulkstoragewriter.h	3/12/2007	d0dad037253f4f83a9107c7ea004c8d8e26f78d1
bulkstoragewritermanaged.cc	3/4/2010	bab20ee94c25d62c2d8a18259915bf0906d68115
bulkstoragewritermanaged.h	3/4/2010	1d8b67f468f0b3d7dbe4f609548261b37fed4eb0
disk_write_methods.cc	3/12/2007	134aea15d93f667e322e7c70c7b89609755e2052
disk_write_methods.h	12/29/2006	4609dcf39b55cc2e111f338b7dbc4a3caf891109
performancemonitor.cc	8/10/2007	f4aece5bd4bcbd520e654ab0d9802c560c2efc09
performancemonitor.h	11/29/2006	b8c37eb8a427fd72f707985661a71641c7436ec
sectensecminstats.cc	11/29/2006	34d884b123216a4fb5bd640bf51d2e8f2ad42ef1
sectensecminstats.h	6/22/2009	38c8bf84879ecdade44a31642b5aba0e30e6cccd

APPENDIX B

802.11 FRAME ELEMENTS







APPENDIX C

THE GSTUMBLER DOT11FRAME PROTOCOL BUFFER AND SUMMARY OF RECORDED CONTENT

C-1. Google source code employs a serialization format, accomplished through the use of objects developed at Google called Protocol Buffers, which are used to exchange and write structured data. Protocol Buffers take an object representing a complex data structure and transform that structured object into a bitstream, suitable for transmission or writing to disk, through a transformation called serialization. The source code for protocol buffers was released under an open source license by Google in 2008. An overview of documentation regarding protocol buffers is available at (<http://code.google.com/apis/protocolbuffers/docs/overview.html>).

C-2. Each type of object to be serialized is specified as a Protocol Buffer “message,” which establishes the structure of each object type. In the gstumbler project source code, Protocol Buffers are declared in the file packet.proto. The protocol buffer message of central importance to gslite’s functionality is the Dot11Frame object, a message that is a structured representation of a single 802.11 wireless frame. The Dot11Frame object contains multiple other protocol buffer messages, also defined in packet.proto, that represent various components and types of wireless frames.

C-3. Protocol buffers provide accessor functions to set and retrieve the values of fielded data within a message. Standard accessor functions include get_<fieldname>, set_<fieldname>, and clear_<fieldname>, where <fieldname> is one of the defined data elements within the message. As discussed in paragraphs 57 and 58 of this report, the Dot11Frame accessor methods clear_body() and set_discard(true) will be called if certain flags and conditions are true. These methods serve, respectively, to clear only the content of the Dot11Frame’s Body field and to set the Discard Boolean flag of a Dot11Frame message to true. These two methods are the means by which a frame is written to disk without its payload or not at all.

C-4. The following tables summarize the properties within each of the protocol buffer messages defined in packet.proto.

Dot11Frame Object	
Property	Description
Raw	A buffer used to store the unprocessed data; this buffer contains the raw frame data parsed throughout frame processing and is cleared prior to the data being written to disk.
Header	A Dot11MacHeader object in the protocol buffer message format described below.
Body	A Dot11FrameBody object in the protocol buffer message format described below.
Position	A cityblock.PositionInfo object containing GPS coordinates.
PositionComment	An optional string.
TimeRecvd	The time the frame arrived for processing.
TimeSent	The estimated time the frame was transmitted.
KismetMetadata	A KismetMetadata object, described below, containing per-packet information including 802.11 channel, signal quality, and frame length.
Discard	A boolean flag that indicates whether or not the entire frame – metadata and body – should be written to disk.

Dot11MacHeader	
Property	Description
Raw	The raw data buffer containing the data that is processed and stored in the header's fields.
FrameControl	A thirty-two bit integer used to store the sixteen bit Frame Control field in an 802.11 frame.
DurationOrId	A thirty-two bit integer used to store the sixteen bit field in position bytes 2 to 3 in an 802.11 frame. These sixteen bits are either the duration or id depending on the type and subtype of the frame.
Address1	The first Media Access Control (MAC) address in an 802.11 frame. A MAC address is a six byte hexadecimal address specifying a network device.
Address2	The second MAC address in an 802.11 frame.
Address3	The third MAC address in an 802.11 frame.
SequenceControl	The sixteen bit sequence control number present in data and management frames. Data may be fragmented for transmission or re-transmission. If the data is fragmented, this number is used to determine where in sequence a fragment fits. This field is zero for the first or only fragment of data, and incremented for each successive fragment sent.
Address4	The fourth MAC address in an 802.11 frame.
QoSControl	Sixteen bits of quality of service related information and policies sent by hardware supporting quality of service.

Dot11FrameBody	
Property	Description
Raw	The raw data buffer containing the data that is processed and stored in the body's fields.
FrameType	An enumerated type that specifies if a frame is: a Management frame (0); a Control frame (1); a Data frame (2); a Reserved type frame (3); or if there is no frame type detected (9999).
Ctrl	An optional ControlFrameBody object, defined below.
Mgmt	An optional ManagementFrameBody object, defined below.

ControlFrameBody	
Property	Description
Subtype	An enumerated type specifying the subtype of a Control frame. Its potential values are: PS_POLL (10); RTS (11); CTS (12); ACK (13); CF_END (14); CF_END_ACK (15); and NO_CTRL_SUBTYPE (9999).

ManagementFrameBody	
Property	Description
Subtype	An enumerated type specifying the subtype of a Management frame. Its potential values are: ASSOC_REQ (0); ASSOC_RESP (1); REASSOC_REQ (2); REASSOC_RESP (3); PROBE_REQ (4); PROBE_RESP (5); BEACON (8); ATIM (9); DISASSOC (10); AUTH (11); DEAUTH (12); and NO_MGMT_SUBTYPE (9999).
AuthAlgorithm	A thirty-two bit integer that is not set in the code reviewed.
AuthTransaction	A thirty-two bit integer that is not set in the code reviewed.
BeaconInterval	A thirty-two bit integer that is used to store the sixteen bit value of the number of time units between target beacon transmission times.
Capability	A thirty-two bit integer that is used to store the sixteen bit series of flags outlining the functionality of the transmitter.

CurrentBSSID	A sixty-four bit integer that is used to store the forty-eight bit MAC address of the access point with which the transmitter is currently associated with.
ListenInterval	A thirty-two bit integer used to store the sixteen bit value of how often a receiver in power saver mode wakes to listen to Beacon management frames.
ReasonCode	A thirty-two bit integer that is not set in the code reviewed.
AssocID	A thirty-two bit integer that is used to store the sixteen bit value assigned by an access point during the association process.
StatusCode	A thirty-two bit integer that is used to store the value used in a response management frame to indicate the success or failure of a requested operation.
Timestamp	A sixty-four bit integer used to store the value of the timing synchronization function timer of a frame's source.
IEs	A collection of Information Elements, or key-value pairs regarding a transmitter.
SSID	A string containing the name of the access point.
Channel	A thirty-two bit integer used to store the channel on which a frame was sent.

KismetMetadata	
Property	Description
hdrlen	A thirty-two bit integer used to store the length of the Kismet header.
drone_ver	A thirty-two bit integer used to store the sixteen bit value of the version of the Kismet drone.
datalen	A thirty-two bit integer used to store the length of the data captured by Kismet.
caplen	A thirty-two bit integer used to store the length of the data originally captured by Kismet.
tv_sec	A sixty-four bit integer storing a timestamp in seconds.
tv_usec	A sixty-four bit integer storing a timestamp in microseconds.
quality	A thirty-two bit integer used to store the sixteen bit value signal quality.
signal	A thirty-two bit integer used to store the sixteen bit value signal strength.
noise	A thirty-two bit integer used to store the sixteen bit value signal noise level.
error	A thirty-two bit integer used to store the eight bit value whether the capture source told Kismet the frame was bad.
channel	A thirty-two bit integer used to store the eight bit value of the hardware channel that received the frame.
carrier	A thirty-two bit integer used to store the eight bit value of the signal carrier.
encoding	A thirty-two bit integer used to store the eight bit value of the signal encoding.
datarate	A thirty-two bit integer used to store the value of the data rate, which is in units of 100 kbps.
adapter	A thirty-two bit integer used to store the mapped value of an adapter name.

EXHIBIT 54

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Attorneys for Defendants
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 and OTTOMOTTO LLC

UNITED STATES DISTRICT COURT
 NORTHERN DISTRICT OF CALIFORNIA
 SAN FRANCISCO DIVISION

WAYMO LLC,

 Plaintiff,

 v.

 UBER TECHNOLOGIES, INC.,
 OTTOMOTTO LLC; OTTO TRUCKING LLC,

 Defendants.

Case No. 3:17-cv-00939-WHA

**DEFENDANTS UBER
 TECHNOLOGIES, INC. AND
 OTTOMOTTO LLC'S RESPONSES TO
 WAYMO'S FIRST SET OF
 EXPEDITED INTERROGATORIES
 PURSUANT TO PARAGRAPH SIX OF
 THE MAY 11, 2017 PRELIMINARY
 INJUNCTION ORDER (NOS. 1-9)**

Trial Date: October 2, 2017

RESPONSE TO INTERROGATORY NO. 2:

Defendants object to this interrogatory as vague and ambiguous as to the meaning of “the date(s) they became Diligenced Employees.”

Subject to and without waiving the general and specific objections above, Defendants respond as follows:

The Diligenced Employees are:

1. Anthony Levandowski
2. Lior Ron
3. Colin Sebern
4. Don Burnette
5. Soren Juelsgaard

These five individuals became Diligenced Employees on or around April 11, 2016.

INTERROGATORY NO. 3:

IDENTIFY all Uber Devices and Non-Uber Devices (as those terms are defined in UBER00006444) that LEVANDOWSKI has used to access any of DEFENDANTS' Networks (as that term is defined in UBER00006444), or that LEVANDOWSKI could have used to access any of DEFENDANTS' Networks (as that term is defined in UBER00006444).

RESPONSE TO INTERROGATORY NO. 3:

Defendants object to this interrogatory because it implicates information protected by the attorney-client privilege, the work-product doctrine, and the common-interest and joint-defense privileges. Defendants further objects to this interrogatory to the extent it purports to require expert opinion. Defendants further object to the interrogatory as vague, ambiguous, and overbroad because it asks for the identity of any device that Levandowski “could have used” to access Defendants' networks, which is infinite in scope.

Subject to and without waiving the general and specific objections above, Defendants respond as follows:

To Defendants' knowledge, Mr. Levandowski used two devices to access Uber's networks:

HIGHLY CONFIDENTIAL – ATTORNEYS' EYES ONLY

1. A MacBook Pro (15-inch, 2016) computer provided to Mr. Levandowski by Uber
2. A personal MacBook Pro (not issued by Uber)

INTERROGATORY NO. 4:

Describe the ownership of TYTO and/or ODIN WAVE, INCLUDING the identity of all PERSONS with current or former ownership interests in TYTO and/or ODIN WAVE, that PERSON's current or former ownership interest(s), and the agreements creating or modifying those ownership interests.

RESPONSE TO INTERROGATORY NO. 4:

Defendants object to this interrogatory to the extent it seeks information that is not known or available to Defendants. Defendants further object to this interrogatory as seeking information that is neither relevant to a party's claims or defenses nor likely to lead to discovery of admissible evidence.

Subject to and without waiving the general and specific objections above, Defendants respond as follows:

Ottomotto LLC entered into an asset purchase agreement with Tyto Lidar, LLC ("Tyto") on May 5, 2016, in which Ottomotto LLC obtained certain enumerated assets from Tyto. That agreement, including the corresponding exhibits and schedules, is being produced in response to Waymo's First Set of Expedited Document Requests. Ottomotto LLC was subsequently acquired by Uber. Defendants understand that, at the time Ottomotto LLC entered into the asset purchase agreement with Tyto, Tyto was a California Limited Liability Company, whose sole member was the Sandstone Group, LLC, also a California Limited Liability Company. Defendants further understand that Tyto was originally incorporated as Odin Wave, LLC, but changed its name to "Tyto Lidar, LLC" on February 10, 2014.

INTERROGATORY NO. 5:

Describe all compensation (whether actual or conditional) discussed, conveyed or promised by DEFENDANTS to LEVANDOWSKI at any time, INCLUDING (without limitation) the DEFENDANT who discussed, conveyed or promised the compensation, the nature of the compensation, the date the compensation was promised and/or conveyed, the amount of the

HIGHLY CONFIDENTIAL – ATTORNEYS’ EYES ONLY

1 Dated: June 5, 2017

MORRISON & FOERSTER LLP

2
3 By: /s/ Arturo J. González
ARTURO J. GONZÁLEZ

4 Attorneys for Defendants
5 UBER TECHNOLOGIES, INC.
and OTTOMOTTO LLC
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EXHIBIT 55

**REDACTED VERSION
OF DOCUMENT
SOUGHT TO BE SEALED**

EXHIBIT 56

**REDACTED VERSION
OF DOCUMENT
SOUGHT TO BE SEALED**

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
1	UBER00076756	5/20/2015	3:47 AM	Google Calendar [calendar-notification@google.com]	Jeff Holden				Calendar File	Accepted calendar invitation for 5/20/2015 call with Anthony Levandowski from 6:30-7:00pm.
2	UBER00076758	5/20/2015	3:47 AM	SF 4th-Toronto (5) [uber.com_3634333636383031353730@resource.calendar.google.com]	Jeff Holden	SF 4th-Toronto (5) [uber.com_3634333636383031353730@resource.calendar.google.com]			Calendar File	Calendar invitation for 5/20/2015 call with Anthony Levandowski from 6:30-7:00pm.
3	UBER00076759	5/20/2015	3:47 AM	Google Calendar [calendar-notification@google.com]	Jeff Holden; Anthony Levandowski				Calendar File	Calendar invitation for 5/20/2015 call with Anthony Levandowski from 6:30-7:00pm.
4	UBER00076761	5/20/2015	3:47 AM	Jeff Holden	Jeff Holden; Anthony Levandowski	SF 4th-Toronto (5) [uber.com_3634333636383031353730@resource.calendar.google.com]			Calendar File	Calendar invitation for 5/20/2015 call with Anthony Levandowski from 6:30-7:00pm.
5	UBER00076762	5/20/2015	5:04 AM	Google Calendar [calendar-notification@google.com]	Jeff Holden				Calendar File	Accepted calendar invitation for 5/20/2015 call with Anthony Levandowski from 6:30-7:00pm.
6	UBER00076764	5/20/2015	5:04 AM	Anthony Levandowski	Jeff Holden; Anthony Levandowski				Calendar File	Calendar invitation for 5/20/2015 call with Anthony Levandowski from 6:30-7:00pm.
7		9/23/2015			Jeff Holden				Meeting	Scheduled 9/23/2015 meeting with Anthony Levandowski.
8	UBER00076743	10/3/2015	8:55 PM	Google Calendar [calendar-notification@google.com]	Cameron Poetzsch				Calendar File	Accepted calendar invitation for 10/6/2015 meeting with Anthony Levandowski from 11:00am-12:00pm.
9	UBER00076744	10/3/2015	8:55 PM	Nina Qi	Cameron Poetzsch; Nina Qi				Calendar File	Calendar invitation for 10/6/2015 meeting with Anthony Levandowski from 11:00am-12:00pm.
10	UBER00076754	10/5/2015	5:15 PM	Google Calendar [calendar-notification@google.com]	Cameron Poetzsch				Calendar File	Accepted calendar invitation for 10/6/2015 meeting with Anthony Levandowski from 11:00am-12:00pm.
11	UBER00076755	10/5/2015	5:15 PM	SF 4th-Boston (10) [uber.com_2d31353631343031373531@resource.calendar.google.com]	Cameron Poetzsch	SF 4th-Boston (10) [uber.com_2d31353631343031373531@resource.calendar.google.com]			Calendar File	Calendar invitation for 10/6/2015 meeting with Anthony Levandowski from 11:00am-12:00pm.
12	UBER00076750	10/5/2015	5:17 PM	Google Calendar [calendar-notification@google.com]	Cameron Poetzsch				Calendar File	Declined calendar invitation for 10/6/2015 meeting with Anthony Levandowski from 11:00am-12:00pm.
13	UBER00076751	10/5/2015	5:17 PM	Linh Le	Cameron Poetzsch; Linh Le				Calendar File	Calendar invitation for 10/6/2015 meeting with Anthony Levandowski from 11:00am-12:00pm.
14	UBER00076749	10/6/2015	9:34 PM	Google Calendar [calendar-notification@google.com]	Cameron Poetzsch				Calendar File	Calendar invitation discussing 10/6/2015 call with Anthony Levandowski.
15	UBER00068878	10/12/2015	10:49 PM	Google Calendar [calendar-notification@google.com]	Brian McClendon				Calendar File	Calendar invitation for 10/12/2015 meeting at 4:00-4:30pm following 10/12/2015 call between Cameron Poetzsch and Anthony Levandowski regarding potential deal for purchase of lasers.
16	UBER00076745	10/13/2015	1:17 AM	Google Calendar [calendar-notification@google.com]	Cameron Poetzsch				Calendar File	Accepted calendar invitation for 10/27/2015 phone call with Anthony Levandowski at 2:30-3:00pm.
17	UBER00076746	10/13/2015	1:17 AM	Nina Qi	Cameron Poetzsch; Nina Qi				Calendar File	Calendar invitation for 10/27/2015 phone call with Anthony Levandowski at 2:30-3:00pm.
18	UBER00076747	10/13/2015	5:06 PM	Google Calendar [calendar-notification@google.com]	Cameron Poetzsch				Calendar File	Accepted calendar invitation for 10/13/2015 phone call with Anthony Levandowski at 2:30-3:00pm.
19	UBER00076748	10/13/2015	5:06 PM	Nina Qi	Cameron Poetzsch; Nina Qi				Calendar File	Accepted calendar invitation for 10/13/2015 phone call with Anthony Levandowski at 2:30-3:00pm.
20	UBER00076752	11/6/2015	10:16 PM	Google Calendar [calendar-notification@google.com]	Cameron Poetzsch				Calendar File	Accepted calendar invitation for 11/9/2015 call with Anthony Levandowski and Lior Ron from 11:00am-11:30am.
21	UBER00076753	11/6/2015	10:16 PM	Nina Qi	Cameron Poetzsch; Nina Qi				Calendar File	Calendar invitation for 11/9/2015 call with Anthony Levandowski and Lior Ron from 11:00am-11:30am.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
22	UBER00086697	11/16/2015		Google Calendar [calendar-notification@google.com]	Brian McClendon			San Francisco	Calendar File	Calendar invitation for 11/16/2015 in-person meeting with Nina Qi and Cameron Poetzsch regarding LiDAR supplier deal at 3:00-4:00pm.
23	RON0000082 RON0000083	11/21/2015	10 53 AM	Anthony Levandowski	Lior Ron; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding LiDAR news article.
24	UBER00068858	12/3/2015	12:50 AM	Google Calendar [calendar-notification@google.com]	Brian McClendon				Calendar File	Calendar invitation for 12/2/2015 in-person meeting regarding potential purchase of lasers and consulting services with Anthony Levandowski from 5:00-5:30pm.
25	UBER00086696	12/4/2015		Google Calendar [calendar-notification@google.com]	Brian McClendon			San Francisco	Calendar File	Calendar invitation for 12/4/2015 in-person meeting with Nina Qi and Cameron Poetzsch regarding LiDAR supplier deal at 3:00-4:00pm.
26	UBER00068899	12/7/2015	11:49 PM	Google Calendar [calendar-notification@google.com]	Brian McClendon; Nina Qi				Calendar File	Calendar invitation to hold time for 12/11/15 meeting with Anthony Levandowski and Lior Ron from 9:00-10:00pm.
27	UBER00068900	12/7/2015	11:49 PM	Cameron Poetzsch	Brian McClendon; Nina Qi; Cameron Poetzsch				Calendar File	Calendar invitation to hold time for 12/11/15 meeting with Anthony Levandowski and Lior Ron from 9:00-10:00pm.
28	UBER00076739	12/7/2015	11:59 PM	Google Calendar [calendar-notification@google.com]	Cameron Poetzsch				Calendar File	Accepted calendar invitation to hold time for 12/11/15 meeting with Anthony Levandowski and Lior Ron from 1:00-2:00pm.
29	UBER00076740	12/7/2015	11:59 PM	Nina Qi	Cameron Poetzsch				Calendar File	Calendar invitation to hold time for 12/11/15 meeting with Anthony Levandowski and Lior Ron from 1:00-2:00pm.
30	UBER00076741	12/8/2015	6:24 PM	Google Calendar [calendar-notification@google.com]	Cameron Poetzsch				Calendar File	Declined calendar invitation to hold time for 12/11/15 meeting with Anthony Levandowski and Lior Ron from 1:00-2:00pm.
31	UBER00076742	12/8/2015	6:24 PM	Emil Michael	Cameron Poetzsch; Emil Michael				Calendar File	Calendar invitation to hold time for 12/11/15 meeting with Anthony Levandowski and Lior Ron from 1:00-2:00pm.
32	UBER00068851	12/11/2015	8:50 PM	Google Calendar [calendar-notification@google.com]	Brian McClendon			1455 Market Street, San Francisco	Calendar File	Calendar invitation for 12/11/2015 meeting regarding potential purchase of lasers with Anthony Levandowski and Lior Ron from 1:00-2:00pm.
33	RON0000248 RON0000249 RON0000250 RON0000254 RON0000255	12/20/2015	12 12 AM	Anthony Levandowski	Lior Ron; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding LiDAR journal article.
34	UBER00068835	12/20/2015	5:46 AM	Jeff Holden	Brian McClendon	Cameron Poetzsch			E-Mail	Email regarding scheduled 12/20/2015 meeting with Anthony Levandowski and Travis Kalanick.
35	UBER00068834	12/21/2015	9:16 PM	Brian McClendon	Mayrose Munar; Jeff Holden; Cameron Poetzsch; Emily Maher				E-Mail	Email discussion regarding 12/22/2015 meeting with Travis Kalanick regarding Anthony Levandowski and company.
36	UBER00068827	1/4/2016	7:20 PM	Brian McClendon	Jeff Holden				E-Mail	Email discussion regarding invitation to Cameron Poetzsch for 1/4/2016 meeting with Anthony Levandowski from 5:00-6:30pm.
37	UBER00060662	1/5/2016	1:31 AM	Google Calendar [calendar-notification@google.com]	Travis Kalanick; Brian McClendon; Jeff Holden; Cameron Poetzsch; Michele Wiecha	Travis Kalanick; Jeff Holden; Brian McClendon; Cameron Poetzsch		1455 Market Street, San Francisco	Calendar File	Calendar invitation for 1/4/2016 meeting with Anthony Levandowski from 5:00-6:30pm.
38	UBER00069077	1/5/2016	7:19 PM	Google Calendar [calendar-notification@google.com]	Brian McClendon; Travis Kalanick			1455 Market Street, San Francisco	Calendar File	Calendar invitation for 1/5/2016 meeting with Anthony Levandowski from 1:00-2:30am.
39	UBER00069078	1/5/2016	7:19 PM	Jeff Holden	Brian McClendon; Travis Kalanick			1455 Market Street, San Francisco	Calendar File	Calendar invitation for 1/5/2016 meeting with Anthony Levandowski from 1:00-2:30am.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
40	UBER00074986	1/5/2016	10:09 PM	Cameron Poetzsch	Jeff Holden; Anthony Levandowski	Brian McClendon; Michele Wiecha; Nina Qi			E-Mail	Email regarding LiDAR goals and milestones.
41	UBER00074988	1/5/2016	10:04 PM	Jeff Holden	Anthony Levandowski	Cameron Poetzsch; Brian McClendon; Michele Wiecha			E-Mail	Email regarding LiDAR goals and milestones, and referencing 1/4/2016 in-person meeting between Jeff Holden and Anthony Levandowski.
42	UBER00075078	1/5/2016	10:52 PM	Jeff Holden	Cameron Poetzsch	Anthony Levandowski; Brian McClendon; Michele Wiecha; Nina Qi			E-Mail	Email regarding LiDAR goals and milestones.
43	UBER00075082	1/5/2016	10:04 PM	Jeff Holden	Anthony Levandowski	Cameron Poetzsch; Brian McClendon; Michele Wiecha			E-Mail	Email regarding LiDAR goals and milestones.
44	UBER00060320	1/8/2016	7:45 PM	John Bares					Spreadsheet	Email regarding use of other sensors in rabbit ears concept.
45		1/12/2016		Anthony Levandowski	John Bares				Phone Call	Phone call regarding LiDAR milestones for mid-range and long-range LiDAR systems. Based on independent recollection from John Bares, phone call could have started at 5:00, 6:00, or 7:00pm.
46	UBER00060329	1/12/2016		John Bares					Meeting (notes)	Notes from 1/12/2016 phone call with Anthony Levandowski.
47	UBER00060650	1/13/2016	7:02 AM	Cameron Poetzsch	Emil Michael; Jeff Holden; Brian McClendon; Nina Qi; Travis Kalanick				E-Mail	Email regarding 1/13/2016 meeting and scheduled meetings during 1/14/2016-1/17/2016 with Anthony Levandowski. Meetings with Anthony Levandowski during 1/13/2016-1/17/2016 period supported by independent recollection from John Bares.
48	UBER00060649	1/14/2016	12:36 AM	Cameron Poetzsch	Travis Kalanick; Emil Michael; Jeff Holden; Brian McClendon; Nina Qi				E-Mail	Email regarding meeting with Anthony Levandowski to discuss milestones for lasers and data.
49	UBER00068746	1/15/2016	5:15 PM	Cameron Poetzsch	Nina Qi; John Bares; Brian McClendon				E-Mail	Email regarding 1/15/2016 call between Nina Qi and Anthony Levandowski.
50	UBER00068745	1/16/2016	12:01 AM	Google Calendar [calendar-notification@google.com]	Brian McClendon				Calendar File	Calendar invitation for 1/15/2016 meeting with Anthony Levandowski from 4:30-5:30pm.
51	UBER00060329	1/18/2016		John Bares					Meeting (notes)	Notes from 1/18/2016 meeting with Anthony Levandowski; Brian McClendon; Cameron Poetzsch; and Nina Qi. Based on independent recollection from John Bares, Anthony Levandowski was likely in person for meeting and John Bares joined by phone.
52	UBER00068725	1/18/2016	3:09 PM	John Bares	Brian McClendon				E-Mail	Email regarding meeting with Anthony Levandowski about something related to a ladar company.
53	UBER00068729	1/18/2016	3:07 PM	John Bares	Brian McClendon				E-Mail	Email regarding meeting with Anthony Levandowski about something related to a ladar company.
54	UBER00068719	1/19/2016	11:19 PM	Google Calendar [calendar-notification@google.com]	Brian McClendon			1455 Market Street, San Francisco	Calendar File	Calendar invitation for 1/19/2016 meeting with Anthony Levandowski from 6:30-7:00pm. Brian McClendon joined meeting over Zoom.
55	UBER00060329	1/19/2016		John Bares					Meeting (notes)	Notes from 1/19/2016 meeting with Bryan Salesky; Lior Ron; Anthony Levandowski; Brian McClendon; Cameron Poetzsch; and Jeff Holden.
56	UBER00062774	1/20/2016	2:21 PM	John Bares	Cameron Poetzsch; Emil Michael; Brian McClendon; Travis Kalanick; Jeff Holden; Nina Qi				E-Mail	Email discussing 1/20/2016 meeting with Anthony Levandowski.
57	UBER00060329	1/20/2016		John Bares					Meeting (notes)	Notes from 1/20/2016 meeting with Lior Ron; Anthony Levandowski; Brian McClendon; Cameron Poetzsch; and Jeff Holden.
58	UBER00065998	1/20/2016	7:21 PM	John Bares	Cameron Poetzsch; Emil Michael	Brian McClendon; Travis Kalanick; Jeff Holden; Nina Qi			E-Mail	Email regarding experience of Anthony Levandowski and team with mid and long range lasers.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
59	UBER00063569	1/20/2016	5:27 AM	Cameron Poetzsch	Emil Michael	Travis Kalanick; Jeff Holden; Brian McClendon; Nina Qi			E-Mail	Email regarding laser IP and laser purchases by trucking company.
60	UBER00063587	1/20/2016	3:27 PM	Cameron Poetzsch	Emil Michael	Travis Kalanick; Jeff Holden; Brian McClendon; Nina Qi			E-Mail	Email regarding valuation and meeting with Anthony Levandowski attaching draft term sheet.
61	UBER00063591	1/20/2016	3:27 PM	Nina Qi					Attachment	Attachment regarding LiDAR tech (draft term sheet).
62	UBER00062774	1/20/2016	7:21 PM	John Bares	Cameron Poetzsch; Emil Michael	Brian McClendon; Travis Kalanick; Jeff Holden; Nina Qi			E-Mail	Email regarding experience of Anthony Levandowski and team with mid and long range lasers.
63	UBER00068702	1/20/2016	5:27 AM	Cameron Poetzsch	Emil Michael	Travis Kalanick; Jeff Holden; Brian McClendon; Nina Qi			E-Mail	Email regarding laser IP and laser purchases by trucking company.
64	UBER00069005	1/20/2016	3:27 PM	Nina Qi					Document	Document regarding laser specifications.
65	UBER00069043	1/20/2016	10:18 PM	Nina Qi					Document	Document regarding laser specifications.
66	UBER00060329	1/24/2016		John Bares					Meeting (notes)	Notes from 1/24/2016 meeting with Anthony Levandowski; Lior Ron; Nina Qi; and Cameron Poetzsch.
67	RON0000279 RON0000280	1/24/2016	9:48 AM	Anthony Levandowski	Lior Ron; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding laser discussion.
68	UBER00061237	1/24/2016	10:47 PM	Cameron Poetzsch	Emil Michael; Jeff Holden; Travis Kalanick	Nina Qi; John Bares			E-Mail	Email regarding technical milestones.
69	UBER00061340	1/24/2016	3:29 PM	Cameron Poetzsch	Emil Michael; Jeff Holden	Travis Kalanick; Brian McClendon; Nina Qi; John Bares; Kirsten Thompson			E-Mail	Email regarding milestones and meeting with Anthony Levandowski.
70	UBER00061443	1/24/2016	9:32 PM	Emil Michael	Jeff Holden; Cameron Poetzsch	Travis Kalanick; Brian McClendon; Nina Qi; John Bares; Kirsten Thompson			E-Mail	Email regarding milestones and meeting with Anthony Levandowski.
71	UBER00066830	1/24/2016	9:32 PM	Emil Michael	Jeff Holden; Cameron Poetzsch	Travis Kalanick; Brian McClendon; Nina Qi; John Bares; Kirsten Thompson			E-Mail	Email regarding meeting with NewCo regarding milestones.
72	UBER00060665	1/25/2016	3:14 PM	John Bares	Travis Kalanick; Cameron Poetzsch	Emil Michael; Jeff Holden; Nina Qi			E-Mail	Email discussing 1/24/2016 meeting with Anthony Levandowski and Cameron Poetzsch; and 1/25/2016 phone call with Anthony Levandowski and Travis Kalanick.
73	UBER00060329	1/25/2016		John Bares					Meeting (notes)	Notes from 1/25/2016 meeting with Anthony Levandowski; Lior Ron; Nina Qi; and Cameron Poetzsch.
74	UBER00060677	1/25/2016	3:13 PM	Cameron Poetzsch	Emil Michael; Brian McClendon	Jeff Holden; Travis Kalanick; Nina Qi; John Bares			E-Mail	Email regarding laser IP and laser purchases by trucking company.
75	UBER00060814	1/25/2016	9:32 AM	Travis Kalanick	Cameron Poetzsch	Emil Michael; Jeff Holden; Nina Qi; John Bares			E-Mail	Email regarding NewCo terms.
76	UBER00071482	1/25/2016	3:14 PM	John Bares	Travis Kalanick; Cameron Poetzsch	Emil Michael; Jeff Holden; Nina Qi			E-Mail	Email regarding meeting with Anthony Levandowski and scaling of autonomous vehicles.
77	UBER00063640	1/27/2016	12:54 AM	Cameron Poetzsch	Travis Kalanick; Emil Michael; Jeff Holden	Nina Qi			E-Mail	Email discussing 1/26/16 and 1/27/2016 meetings with Anthony Levandowski, Cameron Poetzsch, and Lior Ron.
78	UBER00060329	2/8/2016		John Bares					Phone Call (notes)	Notes from 2/8/2016 call with Anthony Levandowski; Lior Ron; Nina Qi; and Cameron Poetzsch.
79		2/11/2016		Anthony Levandowski	Dan Gruver				One-on-one conversation	Conversation regarding LiDAR design, tools, and techniques.
80	RON0013201	2/12/2016	6:53 PM	Adam Bentley	Nina Qi	Andrew Glickman; Christiam Lynn; Paul Sieben; Lior Ron; Cameron Poetzsch; Jamie Leigh; Todd Hamblet; Aaron Melville; Julie Xu; Andrew Dolak			Email	Email reflecting discussion with Anthony Levandowski regarding lasers.
81	UBER00076358	2/22/2016	10:50 PM	Anthony Levandowski	Dan Gruver				E-Mail	Email regarding laser specifications.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
82	UBER00076359	2/22/2016	10:50 PM						Attachment	Attachment regarding laser specifications.
83	UBER00076666	2/22/2016	10:50 PM	Anthony Levandowski	Dan Gruver				E-Mail	Email regarding long range laser specifications.
84	UBER00076667	2/22/2016	10:50 PM						Attachment	Attachment spreadsheet regarding long range laser specifications.
85	UBER00017007	2/23/2016	1:50 AM						Document	Document regarding laser specifications.
86	UBER00060329	2/26/2016		John Bares					Phone Call (notes)	Notes from 2/26/2016 meeting with Anthony Levandowski; Lior Ron; Cameron Poetzcher; and Nina Qi.
87	UBER00076054	2/29/2016	1:48 AM	Google Calendar [calendar-notification@google.com]	Lior Ron				Calendar File	Accepted calendar invitation for 3/4/2016 video call related meeting with optics/laser Stanford Ph.D., Adam Backer.
88	UBER00076055	2/29/2016	1:48 AM	Anthony Levandowski	Lior Ron; Anthony Levandowski				Calendar File	Confirmed calendar invitation for 3/4/2016 video call related meeting with optics/laser Stanford Ph.D., Adam Backer.
89	UBER00076053	2/29/2016	1:57 AM	Anthony Levandowski	Lior Ron				E-Mail	Email communication regarding upcoming meeting with laser optics Stanford Ph.D., Adam Backer.
90	UBER00076675	2/29/2016	1:47 AM	Anthony Levandowski	Dan Gruver				E-Mail	Email regarding third party vendor FiconTEC.
91		2/29/2016		Anthony Levandowski	George Lagui			Cowper Street, Palo Alto	Meeting	New hire meeting, including discussion of lens placement.
92		3/2/2016		Anthony Levandowski	Dan Ratner; Max Levandowski			Cowper Street, Palo Alto	Meeting	New hire meeting, including discussion of lasers.
93	UBER00076056	3/4/2016	7:03 PM	Google Calendar [calendar-notification@google.com]	Lior Ron				Calendar File	Declined calendar invitation for 3/4/2016 video call related meeting with optics/laser Stanford Ph.D., Adam Backer.
94	UBER00076055	3/4/2016	7:03 PM	Anthony Levandowski	Lior Ron; Anthony Levandowski				Calendar File	Confirmed calendar invitation for 3/4/2016 video call related meeting with optics/laser Stanford Ph.D., Adam Backer.
95	UBER00301131 UBER00301132 UBER00301133 UBER00301134 UBER00301135 UBER00301136 UBER00301137 UBER00301138 UBER00301139	3/4/2016	7:30 PM	Anthony Levandowski	Don Burnette; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding laser.
96	UBER00060329	3/4/2016		John Bares					Phone Call (notes)	Notes from 3/4/2016 meeting with Anthony Levandowski; Lior Ron; Cameron Poetzcher; and Nina Qi.
97	UBER00076694	3/5/2016	7:44 AM	Anthony Levandowski	Claire Delaunay				E-Mail	Email discussion re: LiDAR reader.
98	UBER00076251	3/5/2016	7:44 AM	Anthony Levandowski	Claire Delaunay				E-Mail	Email regarding Tyto LiDAR reader.
99	UBER00076608	3/5/2016	7:44 AM	Anthony Levandowski	Claire Delaunay				E-Mail	Email regarding Tyto LiDAR reader.
100	UBER00076413	3/6/2016	8:43 PM	Anthony Levandowski	Rhian Morgan	Eric Berdinis; Lior Ron; Claire Delaunay; Soren Juelsgaard			E-Mail	Email discussion of LiDAR-related responsibilities for prospective employees.
101	UBER00076415	3/6/2016	8:49 PM	Anthony Levandowski	Rhian Morgan	Eric Berdinis; Lior Ron; Claire Delaunay; Soren Juelsgaard			E-Mail	Email discussion of LiDAR-related responsibilities for prospective employees.
102	UBER00076093	3/8/2016	8:37 PM	Anthony Levandowski	Eric Berdinis	Soren Juelsgaard; Colin Sebern; Dan Gruver			E-Mail	Email regarding third parties Sensata and Quanergy.
103	UBER00076612	3/8/2016	8:37 PM	Anthony Levandowski	Eric Berdinis	Soren Juelsgaard; Colin Sebern; Dan Gruver			E-Mail	Email regarding third parties Sensata and Quanergy.
104	UBER00065004	3/11/2016	6:20 PM	Google Calendar [calendar-notification@google.com]	Travis Kalanick			1455 Market Street, San Francisco	Calendar File	Calendar invitation for 3/11/2016 meeting with Anthony Levandowski and Lior Ron at 10:30-11:00am.
105	UBER00076196	3/22/2016	6:51 AM	Anthony Levandowski	Drew Gray; Robbie Miller	Claire Delaunay; Benjamin Butin; David Weikersdorfer			E-Mail	Email regarding image labeling and laser data.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
106	UBER00086457	3/28/2016	10:25 PM	John Bares	John Bares; Anthony Levandowski				Text Message	Message regarding acquiring used [REDACTED]
107	UBER00086458	3/28/2016	10:26 PM	Anthony Levandowski	John Bares; Anthony Levandowski				Text Message	Message regarding acquiring used [REDACTED]
108	UBER00086459	3/28/2016	10:28 PM	John Bares	John Bares; Anthony Levandowski				Text Message	Message regarding acquiring used [REDACTED]
109	UBER00086460	3/28/2016	10:29 PM	Anthony Levandowski	John Bares; Anthony Levandowski				Text Message	Message regarding acquiring used [REDACTED]
110	UBER00086461	3/28/2016	10:52 PM	John Bares	John Bares; Anthony Levandowski				Text Message	Message regarding acquiring used [REDACTED]
111	UBER00086462	3/28/2016	10:53 PM	Anthony Levandowski	John Bares; Anthony Levandowski				Text Message	Message regarding acquiring used [REDACTED]
112	UBER00060329	3/29/2016		John Bares					Meeting (notes)	Notes from 3/29/2016 meeting with Anthony Levandowski and Brian McClendon.
113	UBER00076100	3/30/2016	7:44 AM	Anthony Levandowski	OTTO LIDAR DEVELOPMENT [laser-dev@ot.to]				E-Mail	Email regarding LIDAR motor controllers.
114	UBER00076099	3/30/2016	8:11 AM	Anthony Levandowski	Laser-dev@ot.to				E-Mail	Email regarding LIDAR motor controllers.
115		4/1/2016	2:05 AM	Anthony Levandowski	Brian McClendon				Text Message	Text message from Anthony Levandowski regarding consulting and laser development visit to Pittsburgh.
116	UBER00076658	4/2/2016	7:35 AM	Anthony Levandowski		Dan Gruver			E-Mail	Email regarding third party [REDACTED] and lens manufacturing.
117	UBER00076693	4/3/2016	7:56 AM	Anthony Levandowski	Lior Ron				E-Mail	Email regarding hardware disclosures.
118	UBER00075019	4/4/2016	5:08 PM	Leigh Ann Heagle	Anthony Levandowski	Jeff Holden			E-Mail	Email discussing meeting with Anthony Levandowski referencing building lasers for ATC.
119	UBER00073873	4/8/2016	1:23 AM	Anthony Levandowski	Travis Kalanick				Text Message	Text message regarding discussion on lasers.
120		4/8/2016			Jeff Holden				One-on-one conversation	One-on-one conversation with Anthony Levandowski where Anthony may have mentioned LIDAR.
121	UBER00075009	4/8/2016	5:33 PM	Google Calendar	Jeff Holden				E-Mail	Email discussing meeting with Anthony Levandowski referencing building lasers for ATC.
122	UBER00016838	4/9/2016	5:20 AM						Document	Document regarding laser specifications.
123	UBER00076101	4/11/2016	7:24 PM	Google Calendar [calendar-notification@google.com]	Max Levandowski			Cowper Street, Palo Alto	Calendar File	Accepted calendar invitation for 4/11/2016 at 1:30 to 2:30 to discuss Long Range Laser.
124	UBER00076102	4/11/2016	7:24 PM	Anthony Levandowski	Max Levandowski; Anthony Levandowski			Cowper Street, Palo Alto	Calendar File	Calendar invitation for 4/11/2016 meeting regarding long range laser at 1:30-2:30pm.
125	UBER00076103	4/11/2016	7:24 PM	Google Calendar [calendar-notification@google.com]	Max Levandowski			Cowper Street, Palo Alto	Calendar File	Accepted calendar invitation for 4/11/2016 medium range laser meeting at 2:30-3:30pm.
126	UBER00076104	4/11/2016	7:24 PM	Anthony Levandowski	Max Levandowski; Anthony Levandowski			Cowper Street, Palo Alto	Calendar File	Calendar invitation for 4/11/2016 medium range laser meeting at 2:30-3:30pm.
127	UBER00076052	4/12/2016	6:56 PM	Anthony Levandowski	Dan Gruver	Lior Ron; Soren Juelsgaard			E-Mail	Email regarding news article for third party Velodyne.
128	UBER00076604	4/12/2016	6:56 PM	Anthony Levandowski	Dan Gruver	Lior Ron; Soren Juelsgaard			E-Mail	Email regarding news article related to third party Velodyne.
129	UBER00076673	4/12/2016	8:52 PM	Anthony Levandowski	Dan Gruver				E-Mail	Email regarding optical transceivers from third party [REDACTED].
130	UBER00076292	4/13/2016	3:16 PM	Anthony Levandowski	Dan Gruver	Soren Juelsgaard; George Lagui; Daniel Ratner; Max Levandowski; Robbie Miller			E-Mail	Email regarding work space for laser research & development team.
131	UBER00301174 UBER00301175	4/13/2016	9:19 PM	Anthony Levandowski	Don Burnette; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding Velodyne.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
132	UBER00075960	4/14/2016	5:25 PM	Anthony Levandowski	Eric Berdinis				E-Mail	Email regarding New Yorker news article.
133	UBER00065878	4/14/2016	10:30 PM	Nina Qi	John Bares; Brian McClendon	Cameron Poetzsch		Pittsburgh	E-Mail	Email regarding 4/14/2016 in-person meeting with discussion by Anthony Levandowski, Claire Delaunay, and Brian McClendon regarding LiDAR.
134		4/15/2016		Anthony Levandowski	Robert Doll			3011 Smallman, Pittsburgh	Meeting	Meeting regarding LiDAR development.
135		4/15/2016		Anthony Levandowski	Peter Melick; Brian Zajac; Dave LaRose; Drew Bagnell; John Bares; Anthony Levandowski; Lior Ron; Soren Juelsgaard; Claire Delaunay; and potentially others			3011 Smallman, Pittsburgh	Meeting	Meeting with Anthony Levandowski regarding LiDAR simulations.
136	UBER00075085	4/17/2016	11:44 PM	John Bares	Anthony Levandowski				E-Mail	Email regarding tech POC for laser.
137	UBER00076050	4/18/2016	9:10 AM	Anthony Levandowski	Harris Faruqi	Lior Ron; Rhian Morgan			E-Mail	Email regarding recruiting of engineers.
138	UBER00076350	4/18/2016	5:42 PM	Anthony Levandowski	John Bares				E-Mail	Email regarding laser team staffing.
139	UBER00065762	4/18/2016	5:33 PM	John Bares	Brian McClendon				E-Mail	Email discussing laser discussions with Newco and Anthony Levandowski.
140	UBER00065792	4/18/2016	8:15 PM	John Bares	Brian McClendon				E-Mail	Email discussing laser discussions with Newco and Anthony Levandowski.
141	UBER00065812	4/18/2016	9:26 PM	Brian McClendon	John Bares				E-Mail	Email regarding meeting with Levandowski and feedback on laser.
142	UBER00076412	4/19/2016	7:27 AM	Anthony Levandowski	Dan Gruver	Soren Juelsgaard			E-Mail	Email regarding work space for laser research & development team.
143	UBER00301177 UBER00301178	4/20/2016	12 51 PM	Anthony Levandowski	Don Burnette; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding development of LiDAR.
144	UBER00076098	4/21/2016	4:21 AM	Anthony Levandowski	George Lagui	Dan Gruver; laser-dev@ot.to			E-Mail	Email regarding status update from laser team.
145	UBER00076621	4/21/2016	4:21 AM	Anthony Levandowski	George Lagui	Dan Gruver; laser-dev@ot.to			E-Mail	Email regarding laser team goals.
146	UBER00076096	4/22/2016	9:26 AM	Anthony Levandowski	Robbie Miller	Eng-ops [eng-ops@ot.to]			E-Mail	Email regarding status of vehicle as online or offline.
147	UBER00012193	4/23/2016	12:35 AM	Abram Burkholder	Max Levandowski				E-Mail	Email discussing requests from Anthony for design of bracket to hold LiDAR unit.
148	UBER00012194	4/23/2016	12:20 AM	Max Levandowski	Abram Burkholder				E-Mail	Email discussing requests from Anthony for design of bracket to hold LiDAR unit.
149	UBER00012195	4/23/2016	12:08 AM	Abram Burkholder	Max Levandowski				E-Mail	Email discussing requests from Anthony for design of bracket to hold LiDAR unit.
150	UBER00301233	4/23/2016	8 41 AM	Anthony Levandowski	Don Burnette; Anthony Levandowski				Text Message	Text message from Levandowski regarding lasers.
151	UBER00012197	4/23/2016	8:41 PM	Max Levandowski	Anthony Levandowski				E-Mail	Email discussing requests from Anthony for design of bracket to hold LiDAR unit.
152	UBER00301236 UBER00301237	4/25/2016	9 35 PM	Anthony Levandowski	Don Burnette; Anthony Levandowski				Text Message	Text message from Anthony Levandowski attaching testing video.
153		4/26/2016	12:51 PM	Anthony Levandowski	Scott Boehmke				Text Messages	Text messages regarding scheduling of meeting with Anthony Levandowski.
154		4/26/2016	6:40 PM	Anthony Levandowski	Scott Boehmke				Text Messages	Text messages regarding scheduling of meeting with Anthony Levandowski.
155	UBER00073832	4/27/2016	9:30 AM	Anthony Levandowski	Travis Kalanick				Text Message	Text message regarding meeting with laser team.
156	UBER00086464	4/27/2016	8:49 PM	John Bares	John Bares; Jeff Holden				Text Message	Message regarding potential meeting with Anthony Levandowski regarding lasers.
157		4/27/2016	10:25 AM	Scott Boehmke	Anthony Levandowski				Text Messages	Text messages regarding scheduling of meeting with Anthony Levandowski.
158		4/27/2016	12:28 PM	Anthony Levandowski	Scott Boehmke				Text Message	Text message regarding scheduling of meeting with Anthony Levandowski.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
159		4/27/2016	1:44 PM	Anthony Levandowski	Scott Boehmke				Text Messages	Text messages regarding scheduling of meeting with Anthony Levandowski.
160		4/27/2016	3:52 PM	Scott Boehmke	Anthony Levandowski				Text Message	Text message regarding scheduling of meeting with Anthony Levandowski.
161		4/27/2016	5:07 PM	Anthony Levandowski	Scott Boehmke				Text Messages	Text messages regarding scheduling of meeting with Anthony Levandowski.
162	UBER00075955	4/27/2016		Anthony Levandowski	Scott Boehmke			Pittsburgh	Meeting (record)	Whiteboard photo from 4/27/16 conversation regarding use of fiber laser for scanning.
163	UBER00075956	4/27/2016		Anthony Levandowski	Scott Boehmke			Pittsburgh	Meeting (record)	Whiteboard photo from 4/27/16 conversation regarding use of fiber laser for scanning.
164	UBER00075957	4/27/2016		Anthony Levandowski	Scott Boehmke			Pittsburgh	Meeting (record)	Whiteboard photo from 4/27/16 conversation regarding use of fiber laser for scanning.
165	UBER00086464	4/28/2016	8:49 AM	Anthony Levandowski	Scott Boehmke				Text Messages	Text messages regarding discussion of LiDAR and design.
166	UBER00076637	4/30/2016	7:28 AM	Anthony Levandowski	Gaetan Pennecot				E-Mail	Email regarding third party [REDACTED] and lens manufacturing.
167	UBER00076640	4/30/2016	7:28 AM						Attachment	Attachment regarding third party [REDACTED] and lens manufacturing.
168	UBER00011327	5/2/2016	10:12 PM	Gaetan Pennecot	Anthony Levandowski				E-Mail	Email regarding technology manufacturing quote.
169	UBER00011989	5/2/2016	6:47 PM	Drew Bagnell	Carl Wellington				E-Mail	Email regarding meeting with Anthony regarding Ladar plan.
170		5/2/2016	4:18 PM	Anthony Levandowski	Scott Boehmke				Text Message	Text message regarding scheduling of meeting with Anthony Levandowski and discussion of LiDAR status.
171		5/2/2016	6:50 PM	Anthony Levandowski	Scott Boehmke				Text Message	Text message regarding scheduling of meeting with Anthony Levandowski.
172	UBER00076169	5/3/2016	2:48 AM	Anthony Levandowski	Scott Boehmke	Dan Gruver			E-Mail	Email regarding travel logistics for laser team member.
173	UBER00076226	5/3/2016	6:34 PM	Anthony Levandowski	Robbie Miller				E-Mail	Email regarding safety procedures for vehicle testing.
174	UBER00076631	5/3/2016	2:45 AM	Anthony Levandowski	Dan Gruver	Gaetan Pennecot			E-Mail	Email regarding third party [REDACTED] and lens manufacturing.
175	UBER00008528	5/4/2016	9:38 PM	Dan Gruver	Scott Boehmke	Anthony Levandowski			E-Mail	Email discussing meeting with Anthony for LiDAR discussions and brainstorming.
176	UBER00008530	5/4/2016	6:36 PM	Scott Boehmke	Anthony Levandowski	Dan Gruver			E-Mail	Email discussing meeting with Anthony for LiDAR discussions and brainstorming.
177	UBER00073820	5/5/2016	9:39 AM	Anthony Levandowski	Travis Kalanick				Text Message	Text message regarding meeting with "Scott ATC" regarding lasers and team.
178	UBER00008520	5/5/2016	4:47 PM	Dan Gruver	Scott Boehmke				E-Mail	Email discussing meeting with Anthony for LiDAR discussions and brainstorming.
179	UBER00008523	5/5/2016	12:46 AM	Dan Gruver	Scott Boehmke				E-Mail	Email discussing meeting with Anthony for LiDAR discussions and brainstorming.
180	UBER00008526	5/5/2016	12:38 AM	Scott Boehmke	Dan Gruver				E-Mail	Email discussing meeting with Anthony for LiDAR discussions and brainstorming.
181	UBER00076097	5/6/2016	4:40 PM	Anthony Levandowski	Soren Juelsgaard	Robbie Miller; Eng-ops [eng-ops@ot.to]; sw@ot.to; Nancy Sun			E-Mail	Email regarding current status of vehicle testing.
182	UBER00065830	5/8/2016	7:31 PM	Scott Boehmke	John Bares; Brian McClendon				E-Mail	Email discussing Otto visit and meeting with Anthony Levandowski.
183	UBER00065777	5/9/2016	10:12 PM	Brian McClendon	John Bares				E-Mail	Email discussing Otto visit and meeting with Anthony Levandowski and laser concerns.
184	UBER00065782	5/9/2016	11:39 PM	John Bares	Brian McClendon				E-Mail	Email discussing Otto visit and meeting with Anthony Levandowski and laser concerns.
185	UBER00065807	5/9/2016	9:44 PM	John Bares	Brian McClendon				E-Mail	Email discussing laser discussions with Newco and Anthony Levandowski.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
186	UBER00060450	5/10/2016	8:11 AM	Scott Boehmke	John Bares				E-Mail (meeting notes)	Email including notes from Scott Boehmke regarding 5/5/2016 meeting with Anthony Levandowski, Dan Gruver, Max Levandowski, Dan Ratner, Harris Faruqi, and Nancy Sun, including discussion with Anthony Levandowski regarding placement of [REDACTED] scanners on vehicle.
187	UBER00060355	5/10/2016	8:04 PM	Mayrose Munar	John Bares; Sherif Marakby; Noah Zych; Jeff Miller; David Richter; Anthony Levandowski	Travis Kalanick; CPOC@uber.com; Marissa Foust			Calendar File	Calendar invitation for 5/13/16 meeting regarding ATC goals with OEMs from 2:00-4:00pm, with recurring meetings on Tuesdays starting at 5/17/16 at 2:00-5:00pm.
188	UBER00086465	5/11/2016	9:12 PM	John Bares	John Bares; Jeff Holden				Text Message	Message regarding potential meeting with Anthony Levandowski and Jeff Holden regarding lasers.
189	UBER00008536	5/11/2016	1:11 PM	Scott Boehmke	Dan Gruver; Anthony Levandowski				E-Mail	Email discussing LiDAR development with Anthony Levandowski.
190	UBER00008538	5/11/2016	4:14 PM	Scott Boehmke	Dan Gruver; Anthony Levandowski				E-Mail	Email discussing LiDAR development with Anthony Levandowski.
191	UBER00008540	5/11/2016	6:15 PM	Dan Gruver	Scott Boehmke	Anthony Levandowski			E-Mail	Email discussing LiDAR development with Anthony Levandowski.
192	UBER00011982	5/11/2016	7:31 PM	Brett Browning	Raffi Krikorian				E-Mail	Email regarding meeting with Levandowski regarding LiDAR issues.
193	UBER00011986	5/11/2016	7:25 PM	Raffi Krikorian	Brett Browning				E-Mail	Email regarding meeting with Levandowski regarding LiDAR issues.
194	UBER00086463	5/12/2016	4:52 AM	Anthony Levandowski	John Bares; Anthony Levandowski				Text Message	Message regarding arrival of lasers.
195	UBER00012020	5/12/2016	3:34 AM	Brett Browning	Raffi Krikorian				E-Mail	Email regarding meeting with Anthony regarding global pose and LiDAR.
196	UBER00012021	5/12/2016	2:38 PM	Brett Browning	Raffi Krikorian				E-Mail	Email regarding meeting with Anthony regarding global pose and LiDAR.
197	UBER00012030	5/12/2016	3:39 AM	Brett Browning	Robbie Sedgewick				E-Mail	Email regarding meeting with Anthony regarding global pose and LiDAR.
198	UBER00076419	5/13/2016	2:54 AM	Anthony Levandowski	Dan Gruver	Soren Juelsgaard			E-Mail	Email regarding organization chart.
199	UBER00063713	5/13/2016	11:30 PM	Jeff Holden	Travis Kalanick				E-Mail	Email referencing discussions with Anthony regarding laser plan.
200	UBER00063715	5/13/2016	3:36 PM	Jeff Holden	Travis Kalanick				E-Mail	Email referencing discussions with Anthony regarding laser plan.
201	UBER00070014	5/13/2016	11:30 PM	Jeff Holden	Travis Kalanick				E-Mail	Email regarding meeting with Anthony Levandowski regarding reporting structure and laser design plan.
202	UBER00070111	5/13/2016	3:36 PM	Jeff Holden	Travis Kalanick				E-Mail	Email regarding meeting with Anthony Levandowski regarding laser design plan.
203	UBER00063705	5/16/2016	4:43 PM	Travis Kalanick	Jeff Holden				E-Mail	Email referencing meetings with third parties regarding LiDAR and discussing with Anthony.
204	UBER00063707	5/16/2016	4:54 PM	Travis Kalanick	Jeff Holden				E-Mail	Email referencing discussions with Anthony regarding laser plan.
205	UBER00065135	5/17/2016		Travis Kalanick	Travis Kalanick; Sherif Marakby; Noah Zych; Neil Stegall; Raffi Krikorian; Anthony Levandowski; Justin Ho; David Richter; Jeff Miller			3011 Smallman, Pittsburgh 1455 Market Street, San Francisco	Calendar File	Calendar invitation for 5/17/2016 "birdhouse" meeting at 9:00-11:00pm.
206		5/17/2016	5:21 PM	Anthony Levandowski	James Haslim				Text Messages	Text messages from Anthony Levandowski with whiteboard drawing regarding LiDAR specifications and requesting phone call.
207	UBER00076022	5/18/2016	11:13 PM	Anthony Levandowski	James Haslim; Dan Gruver				E-Mail	Email regarding LiDAR development.
208	UBER00076023	5/18/2016	11:13 PM						Attachment	Presentation regarding LiDAR development.
209	UBER00076649	5/18/2016	11:13 PM	Anthony Levandowski	James Haslim; Dan Gruver				E-Mail	Email regarding LiDAR development.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
210	UBER00076650	5/18/2016	11:13 PM						Attachment	Attachment powerpoint regarding LiDAR development.
211	UBER00086456	5/18/2016	12:36 PM	John Bares	John Bares; Scott Boehmke; Eric Meyhofer				Text Message	Message inquiring about setting meeting to work on laser with Anthony Levandowski.
212	UBER00008543	5/18/2016	9:02 PM	Scott Boehmke	Anthony Levandowski				E-Mail	Email with notes summarizing lidar talks.
213		5/18/2016	8:37 AM	Anthony Levandowski	Scott Boehmke				Text Messages	Text messages regarding scheduled meeting with Anthony Levandowski and Eric Meyhofer.
214		5/18/2016	2:03 PM	Anthony Levandowski	Scott Boehmke				Text Messages	Text messages regarding scheduling of meeting with Anthony Levandowski.
215	UBER00076429	5/19/2016		Dan Gruver	Dan Gruver; Sameer Kshirsagar; James Haslim; Eyal Cohen; Mike Karasoff; Matthew Palomar; Dan Ratner; Felipe Caldeira; Ben Becker; John Tobias; Dante Rivera; Anthony Levandowski; Gaetan Pennecot; Brent Schwarz; Tri Luong; laser-dev [laser-dev@uber.com]; Max Levandowski; Dan Shafir; Tanya Sumang; Adam Kenvar; Sara Glick; Ronen Sarig; Prashant Chouta; Asheem Linaval; Nancy Sun; Marlon Bocalan; Florin Ignatescu; Carolyn Finney; ft@uber.com; Will Treichler; Soren Juelsgaard; Thomas Smith; Radu Raduta; Zandrea Rox; Paige Recker; George Lagui; Michael Tocce		Upstairs Fishbowl (Propeller Room) [ot.to_h16l0u3mvm6sg8qos43gsrjvh4@group.calendar.google.com]	737 Harrison Street, San Francisco	Calendar File	Calendar invitation for weekly LiDAR standup meeting at 10:30-11:00am from 5/19/2016 to 11/17/2016.
216	UBER00076031	5/20/2016	12:18 AM	Anthony Levandowski	Dan Gruver; James Haslim				E-Mail	Email regarding laser description from third party [REDACTED].
217	UBER00076032	5/20/2016	12:18 AM						Attachment	Attachment regarding laser description from third party [REDACTED].
218	UBER00075972	5/20/2016	5:29 PM	Anthony Levandowski	Dan Gruver	James Haslim			E-Mail	Email regarding laser description from third party [REDACTED].
219	UBER00076698	5/20/2016	12:18 AM	Anthony Levandowski	Dan Gruver; James Haslim				E-Mail	Email regarding diode laser from third party [REDACTED].
220	UBER00076699	5/20/2016	12:18 AM						Attachment	Attachment regarding diode laser from third party [REDACTED].
221	UBER00008513	5/20/2016	12:03 PM	Scott Boehmke	Dan Gruver				E-Mail	Email discussing laser development and reference to sharing a document with Anthony Levandowski.
222	UBER00011153	5/20/2016	1:15 AM	Dan Gruver	Anthony Levandowski	James Haslim			E-Mail	Email discussing laser and LiDAR with Anthony Levandowski.
223	UBER00011149	5/20/2016	5:29 PM	Anthony Levandowski	Dan Gruver	James Haslim			E-Mail	Email regarding diode power and MOPA.
224	UBER00235653 UBER00235654	5/23/2016	3:35 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding laser discussion.
225	UBER00008552	5/23/2016	5:45 PM	Scott Boehmke	Dan Gruver; Anthony Levandowski				E-Mail	Email with Anthony Levandowski discussing beam placement and spacing.
226	UBER00008500	5/23/2016	5:58 PM	Dan Gruver	Scott Boehmke	James Haslim			E-Mail	Email discussing laser development and reference to sharing a document with Anthony Levandowski.
227	UBER00011603	5/23/2016	8:11 PM	Dan Gruver	Brent Schwarz	Gaetan Pennecot			E-Mail	Email regarding [REDACTED] quotes for LiDAR lenses.
228	UBER00008491	5/24/2016	1:45 PM	Scott Boehmke	Dan Gruver	James Haslim			E-Mail	Email discussing laser development and reference to sharing a document with Anthony Levandowski.
229		5/24/2016	8:04 PM	Anthony Levandowski	James Haslim				Text Messages	Text messages from Anthony Levandowski regarding LiDAR testing.
230	UBER00076311	5/25/2016	7:17 AM	Anthony Levandowski	Raffi Krikorian				E-Mail	Email regarding current status of vehicle testing.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
231	UBER00076418	5/25/2016	7:19 AM	Anthony Levandowski	Lior Ron	Harris Faruqi; Claire Delaunay; Soren Juelsgaard; Robbie Miller; Rhian Morgan			E-Mail	Email discussion of LiDAR-related responsibilities for prospective employees.
232	UBER00076309	5/25/2016	3:02 PM	Anthony Levandowski	Raffi Krikorian				E-Mail	Email regarding current status of vehicle testing.
233	UBER00076701	5/25/2016	3:59 PM	Anthony Levandowski	Soren Juelsgaard; Brent Schwarz				E-Mail	Email regarding visit on 5/24/16 from [REDACTED] t from third party [REDACTED]
234	UBER00076702	5/25/2016	3:59 PM						Attachment	Attachment with quote from third party [REDACTED]
235	UBER00076703	5/25/2016	3:59 PM						Attachment	Attachment with NDA from third party [REDACTED]
236	UBER00076420	5/25/2016	3:59 PM	Anthony Levandowski	Soren Juelsgaard; Brent Schwarz				E-Mail	Email regarding 5/24/2016 visit with third party [REDACTED] representative [REDACTED] at Otto and quotation for [REDACTED]
237	UBER00076421	5/25/2016	3:59 PM						Attachment	Attachment regarding quotation from third party [REDACTED]
238	UBER00076422	5/25/2016	3:59 PM						Attachment	Attachment regarding NDA with third party [REDACTED]
239	UBER00008488	5/25/2016	4:40 AM	Dan Gruver	Scott Boehmke	James Haslim			E-Mail	Email discussing laser development and reference to sharing a document with Anthony Levandowski.
240	UBER00064947	5/26/2016	9:22 PM	Raffi Krikorian	Travis Kalanick				E-Mail	Email referencing future discussion with Anthony regarding attachment which discusses organization of autonomy teams.
241		5/26/2016	8:18 PM	Anthony Levandowski	James Haslim				Text Messages	Text messages from Anthony Levandowski regarding LiDAR testing.
242	UBER00065137	5/27/2016		Travis Kalanick	Travis Kalanick; Jeff Miller; Neil Stegall; David Richter; Anthony Levandowski; Sherif Marakby; Justin Ho; Noah Zych; Raffi Krikorian			3011 Smallman, Pittsburgh 1455 Market Street, San Francisco	Calendar File	Calendar invitation for 5/27/2016 "birdhouse" meeting at 10:00pm.
243	UBER00076231	5/28/2016	4:55 PM	Anthony Levandowski	Soren Juelsgaard; Brent Schwarz				E-Mail	Email regarding pump vendors.
244		5/28/2016	6:44 PM	Anthony Levandowski	James Haslim				Text Messages	Text messages from Anthony Levandowski regarding ranging and detecting.
245		5/28/2016	6:44 PM	Anthony Levandowski	James Haslim				Text Messages	Text messages from Anthony Levandowski regarding ranging and detecting.
246		5/29/2016	5:34 PM	Anthony Levandowski	James Haslim				Text Messages	Text messages from Anthony Levandowski regarding LiDAR testing.
247	UBER00076085	5/30/2016	6:29 PM	Anthony Levandowski	Claire Delaunay	Soren Juelsgaard; Colin Sebern; Eng-ops [eng-ops@ot.to]; Robbie Miller			E-Mail	Email regarding vehicle computer monitor.
248	UBER00076087	5/30/2016	8:39 PM	Anthony Levandowski	Soren Juelsgaard	David Weikersdorfer; Colin Sebern; Claire Delaunay; Eng-ops [eng-ops@ot.to]; Robbie Miller			E-Mail	Email regarding vehicle computer monitor.
249	UBER00012121	5/30/2016	6:34 PM	David Weikersdorfer	Anthony Levandowski	Soren Juelsgaard; Colin Sebern; Claire Delaunay; Eng-ops [eng-ops@ot.to]; Robbie Miller			E-Mail	Email discussing Otto1 issues with Anthony Levandowski.
250	UBER00075968	5/31/2016	2:35 PM	Anthony Levandowski	everyone [Everyone@ot.to]				E-Mail	Email regarding laser team update, and vehicle testing and deployment.
251	UBER00075974	5/31/2016	10:07 PM	Anthony Levandowski	Dan Gruver	Daniel Ratner; Otto Lidar [laser-dev@ot.to]			E-Mail	Email regarding LiDAR fiber testing.
252	UBER00076575	5/31/2016	2:35 AM	Anthony Levandowski	everyone [Everyone@ot.to]				E-Mail	Email regarding updates on development, testing, lasers, and deployment.
253	UBER00076671	5/31/2016	10:07 PM	Anthony Levandowski	Dan Gruver	Daniel Ratner; Otto Lidar [laser-dev@ot.to]			E-Mail	Email regarding rotating fiber optic head.
254	UBER00008507	5/31/2016	3:40 PM	Daniel Gruver	Anthony Levandowski	Scott Boehmke; James Haslim			E-Mail	Email with Anthony Levandowski discussing data rates and beam angles.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
255	UBER00012095	5/31/2016	11:13 PM	Benjamin Becker	Dan Gruver	Anthony Levandowski; Daniel Ratner; Otto Lidar [laser-dev@ot.to]			E-Mail	Email discussing LiDAR testing with Anthony Levandowski.
256	UBER00012097	5/31/2016	10:31 PM	Dan Gruver	Anthony Levandowski	Daniel Ratner; Otto Lidar			E-Mail	Email discussing LiDAR testing with Anthony Levandowski.
257	UBER00012099	5/31/2016	5:31 PM	Robbie Miller	Claire Delaunay	Soren Juelsgaard; David Weikersdorfer; Colin Sebern; Anthony Levandowski; Eng-ops [eng-ops@ot.to]			E-Mail	Email discussing LiDAR testing with Anthony Levandowski.
258	UBER00005996	5/31/2016	11:47 PM	Tom Smith	Anthony Levandowski	everyone			E-Mail	Email discussing LiDAR testing and development with Anthony Levandowski.
259	UBER00012172	5/31/2016	3:13 PM	Robbie Miller	Colin Sebern	Anthony Levandowski; Soren Juelsgaard; David Weikersdorfer; Claire Delaunay; Eng-ops [eng-ops@ot.to]			E-Mail	Email discussing LiDAR testing with Anthony Levandowski.
260	UBER00235685 UBER00235686	5/31/2016	3:47 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding LiDAR.
261	UBER00075975	6/1/2016	4:09 AM	Anthony Levandowski	Benjamin Becker	Dan Gruver; Daniel Ratner; Otto Lidar [laser-dev@ot.to]			E-Mail	Email regarding LiDAR fiber testing.
262	UBER00076167	6/1/2016	4:10 AM	Anthony Levandowski	Scott Boehmke				E-Mail	Email regarding LiDAR fiber testing.
263	UBER00076625	6/1/2016	4:09 AM	Anthony Levandowski	Benjamin Becker	Dan Gruver; Daniel Ratner; Otto Lidar [laser-dev@ot.to]			E-Mail	Email regarding rotating fiber optic head.
264	UBER00008505	6/1/2016	10:34 AM	Scott Boehmke	Anthony Levandowski				E-Mail	Email discussing LiDAR testing with Anthony Levandowski.
265	UBER00076643	6/2/2016	10:11 AM	Anthony Levandowski	James Haslim	Dan Gruver			E-Mail	Email regarding circulator testing.
266	UBER00076355	6/2/2016	2:34 PM	Anthony Levandowski	Dan Gruver				E-Mail	Email regarding laser design.
267	UBER00076356	6/2/2016	3:54 PM	Anthony Levandowski	Dan Gruver				E-Mail	Email regarding laser design.
268	UBER00076357	6/2/2016	10:11 AM	Anthony Levandowski	James Haslim	Dan Gruver			E-Mail	Email regarding laser testing.
269	UBER00011146	6/2/2016	3:48 PM	Dan Gruver	Anthony Levandowski				E-Mail	Email discussing adding LEDs to laser with Anthony Levandowski.
270	UBER00011152	6/2/2016	6:17 PM	Dan Gruver	Anthony Levandowski				E-Mail	Email discussing adding LEDs to laser with Anthony Levandowski.
271	UBER00075973	6/3/2016	12:52 AM	Anthony Levandowski	Scott Boehmke				E-Mail	Email regarding lens design.
272	UBER00076670	6/3/2016	12:53 AM	Anthony Levandowski	Dan Gruver	Benjamin Becker; OTTO LIDAR DEVELOPMENT [laser-dev@ot.to]			E-Mail	Email regarding LiDAR fiber testing.
273	UBER00075979	6/3/2016	1:03 AM	Anthony Levandowski	Dan Gruver	Benjamin Becker; OTTO LIDAR DEVELOPMENT [laser-dev@ot.to]			E-Mail	Email regarding LiDAR fiber testing.
274	UBER00076194	6/3/2016	12:52 AM	Anthony Levandowski	Scott Boehmke				E-Mail	Email regarding FAC lens.
275	UBER00076670	6/3/2016	12:53 AM	Anthony Levandowski	Dan Gruver	Benjamin Becker; OTTO LIDAR DEVELOPMENT [laser-dev@ot.to]			E-Mail	Email regarding rotating fiber optic head.
276	UBER00012088	6/3/2016	1:03 AM	Anthony Levandowski	Dan Gruver	Benjamin Becker; OTTO LIDAR DEVELOPMENT [laser-dev@ot.to]			E-Mail	Email regarding rotating fiber optic head.
277	UBER00076672	6/3/2016	1:03 AM	Anthony Levandowski	Dan Gruver	Benjamin Becker; OTTO LIDAR DEVELOPMENT [laser-dev@ot.to]			E-Mail	Email regarding testing related to LiDAR.
278	UBER00076668	6/3/2016	12:52 AM	Anthony Levandowski	Scott Boehmke				E-Mail	Email regarding lens focal length.
279	UBER00012087	6/3/2016	1:01 AM	Dan Gruver	Anthony Levandowski	Benjamin Becker; OTTO LIDAR DEVELOPMENT [laser-dev@ot.to]			E-Mail	Email discussing LiDAR testing with Anthony Levandowski.
280	UBER00235731 UBER00235732 UBER00235733	6/8/2016	9:33 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Message	Text message with Anthony Levandowski attaching LiDAR photo.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
281	UBER00235737 UBER00235738 UBER00235744 UBER00235745 UBER00235751 UBER00235752 UBER00235753 UBER00235754 UBER00235767 UBER00235768 UBER00235769 UBER00235771 UBER00235772	6/9/2016	7:10 AM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text message with Anthony Levandowski regarding laser.
282	UBER00076436	6/9/2016		Dan Gruver	Dan Gruver; James Haslim; Sameer Kshirsagar; Asheem Linavai; Adam Kenvarg; Michael Karasoff; Ben Butin; Nancy Sun; John Tobias; Gaetan Pennecot; Carolyn Finney; Eyal Cohen; Prashant Chouta; Felipe Caldeira; Thomas Smith; Ronen Sarig; Yuan Liu; Dante Rivera; Will Treichler; Radu Raduta; Michael Tocce; Max Levandowski; Daniel Shafir; Sara Glick; Marlon Bocalan; Florin Ignatescu; Filip Trojanek; Anthony Levandowski; Paige Recker; Brent Schwarz; Tanya Sumang; Matthew Palomar; Soren Juelsgaard; Tri Luong; Zandrea Roz; George Lagui		Upstairs Fishbowl (Propeller Room) [ot.to_h16l0u3mvm6sg8qos43gsrjvh4@group.calendar.google.com]	737 Harrison Street, San Francisco	Calendar File	Calendar invitation to 6/9/2016 LiDAR standup meeting at 6:00-6:30pm.
283	UBER00076584	6/9/2016	3:19 PM	Anthony Levandowski	Scott Boehmke	Dan Gruver; James Haslim			E-Mail	Email regarding beam spacing.
284		6/9/2016		Anthony Levandowski	Gaetan Pennecot; James Haslim			737 Harrison Street, San Francisco	Meeting	Meeting regarding LiDAR design.
285	UBER00008510	6/9/2016	3:11 AM	Daniel Gruver	Scott Boehmke	Anthony Levandowski; James Haslim			E-Mail	Email with Anthony Levandowski discussing beam placement and beam groupings.
286	UBER00008553	6/9/2016	12:41 PM	Scott Boehmke	Dan Gruver	Anthony Levandowski; James Haslim			E-Mail	Email with Anthony Levandowski discussing beam placement and spacing.
287	UBER00008564	6/9/2016	3:19 PM	Anthony Levandowski	Scott Boehmke	Dan Gruver; James Haslim			E-Mail	Email regarding testing related to LiDAR.
288	UBER00076426	6/10/2016		Travis Kalanick	Travis Kalanick; Jeff Miller; Raffi Krikorian; Justin Ho; Noah Zych; Neil Stegall; Anthony Levandowski; David Richter; Sherif Markaby			NYC (Chelsea)-Red Hook 3011 Smallman, Pittsburgh 1455 Market Street, San Francisco		Calendar invitation for 6/10/2016 "birdhouse" meeting at 8:30-10:30pm.
289	UBER00008557	6/10/2016	7:29 AM	Daniel Gruver	Anthony Levandowski	Scott Boehmke; James Haslim			E-Mail	Email with Anthony Levandowski discussing beam placement and spacing.
290	UBER00076766	6/13/2016		Brent Schwarz	Brent Schwarz; James Haslim; Sunny Chen; Dan Gruver; [REDACTED]			737 Harrison Street, San Francisco	Calendar File	Calendar invitation for meeting with third party [REDACTED] at 11:30am-1:30pm.
291	UBER00076354	6/15/2016	4:15 AM	Anthony Levandowski	Dan Gruver				E-Mail	Email regarding meeting with third party [REDACTED].
292	UBER00076765	6/15/2016		Brent Schwarz	Brent Schwarz; Helene Stievenard; [REDACTED] [REDACTED] [REDACTED]			737 Harrison Street, San Francisco	Calendar File	Calendar invitation for meeting with third party [REDACTED] at 2:00-2:30pm.
293	UBER00011177	6/15/2016	3:14 AM	Daniel Gruver	Anthony Levandowski; James Haslim	Soren Juelsgaard; Gaetan Pennecot; Mike Karasoff			E-Mail	Email with Anthony Levandowski circulating block diagram for the Spider system.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
294	UBER00008495	6/16/2016	1:14 PM	Scott Boehmke	Anthony Levandowski	Dan; James Haslim; Eric Meyhofer			E-Mail	Email with Anthony Levandowski discussing beam placement and beam groupings.
295	UBER00011167	6/16/2016	2:32 PM	Mike Karasoff	Dan Gruver; James Haslim				E-Mail	Email with Anthony Levandowski discussing microcontroller and block diagram.
296	UBER00011181	6/16/2016	3:02 PM	Daniel Gruver	Mike Karasoff	James Haslim			E-Mail	Email with Anthony Levandowski discussing microcontroller and block diagram.
297	UBER00065138	6/17/2016		Travis Kalanick	Travis Kalanick; Anthony Levandowski; Raffi Krikorian; David Richter; Jeff Miller; Noah Zych; Justin Ho; Neil Stegall; Sherif Marakby			3011 Smallman, Pittsburgh 1455 Market Street, San Francisco	Calendar File	Calendar invitation for 6/17/2016 "birdhouse" meeting at 10:00pm.
298	UBER00075977	6/18/2016	10:17 PM	Anthony Levandowski	Vincent Tran	Eng-ops [eng-ops@ot.to]			E-Mail	Email regarding vehicle testing results.
299	UBER00065139	6/18/2016		Travis Kalanick	Travis Kalanick; Sherif Marakby; Jeff Miller; Justin Ho; Anthony Levandowski; Raffi Krikorian; Neil Stegall; Noah Zych; David Richter			3011 Smallman, Pittsburgh 1455 Market Street, San Francisco	Calendar File	Calendar invitation for 6/18/2016 "birdhouse" meeting at 5:30-7:00pm.
300	UBER00012093	6/18/2016	11:24 PM	Matt Grigsby	Anthony Levandowski	Vincent Tran; Eng-ops [eng-ops@ot.to]			E-Mail	Email discussing Otto2 system disengages with Anthony Levandowski.
301	UBER00075980	6/19/2016	1:44 AM	Anthony Levandowski	Matt Grigsby	Vincent Tran; Eng-ops [eng-ops@ot.to]			E-Mail	Email regarding vehicle testing results.
302	UBER00076240	6/19/2016	8:38 AM	Anthony Levandowski	Claire Delaunay				E-Mail	Email regarding vehicle testing results.
303	UBER00012085	6/19/2016	4:47 AM	Claire Delaunay	Anthony Levandowski	Eng-ops [eng-ops@ot.to]; Vincent Tran			E-Mail	Email discussing Otto2 system disengages with Anthony Levandowski.
304	UBER00012089	6/19/2016	10:35 PM	Claire Delaunay	Don Burnette	Anthony Levandowski; Eng-ops [eng-ops@ot.to]; Vincent Tran			E-Mail	Email discussing Otto2 system disengages with Anthony Levandowski.
305	UBER00235791 UBER00235792	6/20/2016	2 54 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Message	Text messages with Anthony Levandowski regarding laser requirements.
306	UBER00301268 UBER00301269 UBER00301270 UBER00301271 UBER00301272	6/21/2016	6 28 PM	Anthony Levandowski	Don Burnette; Anthony Levandowski				Text Messages	Text messages from Anthony Levandowski regarding lasers.
307	UBER00301552	6/21/2016	6 31 PM	Anthony Levandowski	Don Burnette; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding laser.
308	UBER00235842	6/21/2016	6 44 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Message	Text messages with Anthony Levandowski regarding lasers.
309	UBER00076303	6/21/2016	7:07 PM	Anthony Levandowski	Jeff Holden				E-Mail	Email regarding engineering team assignments and planning.
310	UBER00076299	6/21/2016	10:50 PM	Anthony Levandowski	Jeff Holden				E-Mail	Email regarding engineering team assignments and planning.
311	UBER00076305	6/21/2016	10:51 PM	Anthony Levandowski	Jeff Holden				E-Mail	Email regarding engineering team assignments and planning.
312	UBER00076301	6/21/2016	11:13 PM	Anthony Levandowski	Jeff Holden				E-Mail	Email regarding engineering team assignments and planning.
313	UBER00076676	6/21/2016	11:02 PM	Anthony Levandowski	Jay Liebowitz [jliebowitz@princetonlightwave.com]	Anthony Levandowski; Sabbir Rangwala [srangwala@princetonlightwave.com]; James Haslim; Dan Gruver			E-Mail; Meeting (notes)	Email regarding 6/21/16 phone call between Anthony Levandowski and third party Princeton Lightwave representative Jay Sabbir.
314	UBER00076229	6/22/2016	12:02 AM	Anthony Levandowski	Robbie Miller				E-Mail	Email regarding status of vehicles as online or offline.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
315	UBER00301273 UBER00301274 UBER00301275 UBER00301276 UBER00301277 UBER00301278 UBER00301279 UBER00301280	6/22/2016	3:02 PM	Anthony Levandowski	Don Burnette; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding localization and lasers.
316	UBER00076035	6/23/2016	10:13 PM	Anthony Levandowski	Rhian Morgan	Lior Ron			E-Mail	Email regarding recruitment for laser team.
317	UBER00076437	6/23/2016		Dan Gruver	Dan Gruver; Anthony Levandowski; Dante Rivera; Soren Juelsgaard; James Haslim; Max Levandowski; Tri Luong; Michael Karasoff; Eyal Cohen; Tanya Sumang; Brent Schwarz; Felipe Caldeira; Prashant Chouta; Gaetan Pennecot; Daniel Shafir; Ben Butin; Marlon Bocalan; Thomas Smith; George Lagui; Paige Recker; Zandrea Rox; Adam Kenvarg; Michael Tocce; Filip Trojane; Sara Glick; Sameer Kshirsagar; John Tobias; Asheem Linaval; Florin Ignatescu; Yuan Liu; Ronen Sarig; Radu Raduta; Will Treichler; Carolyn Finney; Matthew Palomar; Nancy Sun		Upstairs Fishbowl (Propeller Room) [ot.to_h16l0u3mvm6sg8qos43gsrjvh4@group.calendar.google.com]	737 Harrison Street, San Francisco	Calendar File	Calendar invitation to 6/23/2016 LIDAR standup meeting at 6:00-6:30pm.
318	UBER00076635	6/23/2016	1:08 AM	Anthony Levandowski	Gaetan Pennecot				E-Mail	Email regarding quote request for third party lens.
319	UBER00076034	6/24/2016	6:03 AM	Anthony Levandowski	Rhian Morgan	Lior Ron			E-Mail	Email regarding recruitment for laser team.
320	UBER00076228	6/24/2016	6:05 AM	Anthony Levandowski	Robbie Miller				E-Mail	Email regarding status of vehicles as online or offline.
321	UBER00076230	6/24/2016	2:48 PM	Anthony Levandowski	Robbie Miller				E-Mail	Email regarding status of vehicles as online or offline.
322	UBER00011588	6/24/2016	9:36 PM	Gaetan Pennecot	Anthony Levandowski				E-Mail	Email regarding LiDAR parts from [REDACTED] with Anthony Levandowski.
323	UBER00076409	6/25/2016	11:15 AM	Anthony Levandowski	Colin Sebern	Soren Juelsgaard; Claire Delaunay			E-Mail	Email regarding vehicle computer monitor.
324	UBER00076092	6/26/2016	2:04 AM	Anthony Levandowski	Claire Delaunay	Soren Juelsgaard; Colin Sebern			E-Mail	Email regarding vehicle computer monitor.
325	UBER00076095	6/26/2016	2:43 PM	Anthony Levandowski	Colin Sebern	Claire Delaunay; Soren Juelsgaard			E-Mail	Email regarding vehicle computer monitor.
326	UBER00075978	6/27/2016	3:03 AM	Anthony Levandowski	James Haslim; Mike Karasoff; Claire Delaunay	Robbie Miller			E-Mail	Email regarding repair for vehicle laser.
327	UBER00075982	6/27/2016	3:32 AM	Anthony Levandowski	James Haslim	Mike Karasoff; Claire Delaunay; Robbie Miller			E-Mail	Email regarding repair for vehicle laser.
328	UBER00076094	6/27/2016	5:09 PM	Anthony Levandowski	Claire Delaunay	Soren Juelsgaard; Colin Sebern			E-Mail	Email regarding vehicle access.
329	UBER00075986	6/27/2016	5:21 PM	Anthony Levandowski	Colin Sebern	Claire Delaunay; Soren Juelsgaard; James Haslim			E-Mail	Email regarding vehicle access.
330	UBER00065140	6/27/2016		Travis Kalanick	Travis Kalanick; Sherif Marakby; Noah Zych; David Richter; Jeff Miller; Anthony Levandowski; Neil Stegall; Raffi Krikorian; Justin Ho			3011 Smallman, Pittsburgh 1455 Market Street, San Francisco	Calendar File	Calendar invitation for 6/27/2016 "birdhouse" meeting at 5:30-7:00pm.
331	UBER00301284	6/27/2016	8:52 PM	Anthony Levandowski	Don Burnette; Anthony Levandowski				Text Message	Text message with Anthony Levandowski regarding lasers.
332	UBER00016585	6/27/2016	10:58 PM						Document	Document regarding laser specifications.
333	UBER00076233	6/28/2016	5:46 AM	Anthony Levandowski	Gaetan Pennecot	Dan Gruver			E-Mail	Email regarding quote from third party [REDACTED]
334	UBER00076410	6/28/2016	10:50 AM	Anthony Levandowski	Soren Juelsgaard				E-Mail	Email regarding status of vehicles as online or offline.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
335	UBER00076417	6/28/2016	3:19 PM	Anthony Levandowski	Soren Juelsgaard				E-Mail	Email regarding status of vehicles as online or offline.
336	UBER00076110	6/28/2016	9:37 PM	Google Calendar [calendar-notification@google.com]	Alicia Poling			3011 Smallman, Pittsburgh	Calendar File	Accepted calendar invite for 6/29/2016 meeting at 4:15-5:15 for "Laser beam pattern sync."
337	UBER00076111	6/28/2016	9:37 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski			3011 Smallman, Pittsburgh	Calendar File	Confirmed calendar invite for 6/29/2016 meeting at 4:15-5:15 for "Laser beam pattern sync."
338	UBER00076284	6/28/2016	9:37 PM	Google Calendar [calendar-notification@google.com]	Eric Meyhofer			3011 Smallman, Pittsburgh	Calendar File	Accepted calendar invite for 6/29/2016 meeting at 4:15-5:15 for "Laser beam pattern sync."
339	UBER00076600	6/28/2016	5:46 AM	Anthony Levandowski	Gaetan Pennecot	Dan Gruver			E-Mail	Email regarding quote request for third party lens.
340	UBER00076588	6/28/2016	10:58 AM	Anthony Levandowski	James Haslim				E-Mail	Email regarding quote from third party.
341	UBER00076589	6/28/2016	10:58 AM						Attachment	Attachment regarding quote from third party.
342	UBER00076596	6/28/2016	10:58 AM						Attachment	Attachment regarding quote from third party.
343	UBER00076573	6/28/2016	9:37 PM	Google Calendar [calendar-notification@google.com]	Alicia Poling			3011 Smallman, Pittsburgh	Calendar File	Accepted calendar invitation for 6/29/16 laser beam pattern sync meeting at 4:15-5:15pm.
344	UBER00076574	6/28/2016	9:37 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski			3011 Smallman, Pittsburgh	Calendar File	Calendar invitation for 6/29/16 laser beam pattern sync meeting at 4:15-5:15pm.
345	UBER00076605	6/28/2016	9:37 PM	Google Calendar [calendar-notification@google.com]	Eric Meyhofer			3011 Smallman, Pittsburgh	Calendar File	Accepted calendar invitation for 6/29/16 laser beam pattern sync meeting at 4:15-5:15pm.
346	UBER00076606	6/28/2016	9:37 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski			3011 Smallman, Pittsburgh	Calendar File	Calendar invitation for 6/29/16 laser beam pattern sync meeting at 4:15-5:15pm.
347	UBER00076582	6/29/2016	4:34 PM	Anthony Levandowski	James Haslim				E-Mail	Email regarding quote from third party.
348	UBER00075963	6/30/2016	3:51 AM	Anthony Levandowski	Eric Berdinis	Lior Ron			E-Mail	Email regarding Transport Topics news article regarding third party ZF.
349	RON0000416	6/30/2016	4 52 AM	Anthony Levandowski	Lior Ron; John Zimmer; Anthony Levandowski				Text Message	Text message with Anthony Levandowski regarding laser team.
350	UBER00075961	6/30/2016	5:46 AM	Anthony Levandowski	Lior Ron	Eric Berdinis			E-Mail	Email regarding Transport Topics news article regarding third party ZF.
351	UBER00076578	6/30/2016	5:45 AM	Anthony Levandowski	Scott Boehmke	Eric Meyhofer; David Rice; James Haslim			E-Mail	Email regarding beam spacing.
352	UBER00076627	6/30/2016	5:47 AM	Anthony Levandowski	Gaetan Pennecot	James Haslim; Brent Schwarz			E-Mail	Email regarding quote request for third party lens.
353	UBER00008502	6/30/2016	4:56 PM	Scott Boehmke	Anthony Levandowski	Eric Meyhofer; David Rice			E-Mail	Email with Anthony Levandowski discussing radar implementation.
354	UBER00008518	6/30/2016	5:55 AM	James Haslim	Anthony Levandowski	Scott Boehmke; Eric Meyhofer; David Rice			E-Mail	Email with Anthony Levandowski discussing beam positioning tolerance.
355	RON0000458 RON0000459 RON0000460 RON0000461 RON0000462 RON0000463 RON0000464 RON0000465 RON0000466	6/30/2016	4 02 PM	Anthony Levandowski	Lior Ron; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding LiDAR.
356	UBER00075985	7/1/2016	3:32 AM	Anthony Levandowski	Dan Gruver	Lior Ron; James Haslim			E-Mail	Email regarding YouTube video from third party Velodyne.
357	UBER00076572	7/1/2016	3:32 AM	Anthony Levandowski	Dan Gruver	Lior Ron; James Haslim			E-Mail	Email regarding video with Velodyne placements.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
358	RON0000469 RON0000470	7/1/2016	4 10 PM	Anthony Levandowski	Lior Ron; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding LiDAR news article.
359		7/1/2016	9:53 PM	Anthony Levandowski	James Haslim				Text Messages	Text messages from Anthony Levandowski regarding fiber to apd alignment.
360	RON0000471 RON0000472	7/2/2016	4 13 AM	Anthony Levandowski	Lior Ron; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding LiDAR discussion.
361	UBER00065141	7/5/2016		Travis Kalanick	Travis Kalanick; David Richter; Justin Ho; Jeff Miller; Anthony Levandowski; Neil Stegall; Sherif Marakby; Noah Zych; Raffi Krikorian			3011 Smallman, Pittsburgh 1455 Market Street, San Francisco	Calendar File	Calendar invitation for 7/5/2016 "birdhouse" meeting at 9:00-11:00pm.
362		7/6/2016	3:55 AM	Anthony Levandowski	Gaetan Pennecot				Text Message	Text message from Anthony Levandowski regarding receipt of motor.
363	UBER00301298 UBER00301299 UBER00301300 UBER00301301 UBER00301302 UBER00301303 UBER00301304 UBER00301305 UBER00301306 UBER00301307	7/6/2016	7 04 AM	Anthony Levandowski	Don Burnette; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding perception and lasers.
364		7/6/2016	11:57 AM	Anthony Levandowski	Gaetan Pennecot				Text Message	Text message from Anthony Levandowski with photo of motor.
365	RON0000477 RON0000478 RON0000479 RON0000480 RON0000481 RON0000482 RON0000483	7/7/2016	7 10 AM	Anthony Levandowski	Lior Ron; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding self-driving vehicle with LiDAR.
366	UBER00076581	7/7/2016	7:27 PM	Anthony Levandowski	[REDACTED]	Dan Gruver; James Haslim			E-Mail	Email regarding information from third party Boulder Nonlinear Systems website.
367	UBER00076622	7/8/2016	4:37 AM	Anthony Levandowski	James Haslim	Dan Gruver; Brent Schwarz; Max Levandowski; Gaetan Pennecot			E-Mail	Email regarding quote from third party [REDACTED]
368	UBER00076617	7/8/2016	1:54 PM	Anthony Levandowski	James Haslim	Dan Gruver; Brent Schwarz; Max Levandowski; Gaetan Pennecot			E-Mail	Email regarding quote from third party [REDACTED]
369	UBER00076613	7/8/2016	4:05 PM	Anthony Levandowski	James Haslim	Dan Gruver; Brent Schwarz; Max Levandowski; Gaetan Pennecot			E-Mail	Email regarding quote from third party [REDACTED]
370	UBER00011306	7/8/2016	4:47 AM	James Haslim	Anthony Levandowski	Dan Gruver; Brent Schwarz; Max Levandowski; Gaetan Pennecot			E-Mail	Email regarding [REDACTED] technologies and purchase of technology.
371	UBER00011310	7/8/2016	2:21 PM	James Haslim	Anthony Levandowski	Dan Gruver; Brent Schwarz; Max Levandowski; Gaetan Pennecot			E-Mail	Email regarding [REDACTED] technologies and purchase of technology.
372	UBER00076237	7/9/2016	5:23 AM	Anthony Levandowski	Gaetan Pennecot				E-Mail	Email regarding quote from third party [REDACTED].
373	UBER00076239	7/9/2016	5:23 AM						Attachment	Attachment with quote from third party [REDACTED]
374	UBER00076006	7/10/2016	6:30 AM	Anthony Levandowski	James Haslim				E-Mail	Email regarding research articles on beam steering.
375		7/10/2016	3:01 AM	Anthony Levandowski	Gaetan Pennecot				Text Messages	Text messages from Anthony Levandowski regarding spdt machine.
376	UBER00076411	7/12/2016	6:55 AM	Anthony Levandowski	Soren Juelsgaard				E-Mail	Email regarding status of vehicles as online or offline.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
377	UBER00065142	7/12/2016		Travis Kalanick	Travis Kalanick; Neil Stegall; David Richter; Sherif Marakby; Raffi Krikorian; Jeff Miller; Noah Zych; Anthony Levandowski; Justin Ho			3011 Smallman, Pittsburgh 1455 Market Street, San Francisco	Calendar File	Calendar invitation for 7/5/2016 "birdhouse" meeting at 9:30-11:30pm.
378		7/12/2016	6:52 PM	Anthony Levandowski	Gaetan Pennecot				Text Message	Text message from Anthony Levandowski regarding status of spdt machine.
379	UBER00076207	7/13/2016	10:04 AM	Anthony Levandowski	Claire Delaunay; Don Burnette				E-Mail	Email regarding status of LiDAR data.
380	UBER00075966	7/13/2016	11:04 AM	Anthony Levandowski	Lior Ron	Eric Berdinis			E-Mail	Email regarding Tranport Topics news article regarding third party ZF.
381	UBER00076792	7/13/2016		Anthony Levandowski	Lisa Weitekamp			3011 Smallman, Pittsburgh	Meeting	Meeting regarding AVMaps. No specific recollection regarding whether Anthony Levandowski attended in person or by Zoom.
382	UBER00012004	7/13/2016	9:37 PM	Drew Bagnell	Matt Harris				E-Mail	Email regarding future meeting with Anthony to discuss LiDAR streetside data.
383	RON0000505 RON0000506	7/14/2016	1:03 AM	Anthony Levandowski	Lior Ron; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding laser discussion.
384	RON0000518 RON0000519	7/15/2016	5:08 AM	Anthony Levandowski	Lior Ron; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding laser.
385	UBER00235864 UBER00235865 UBER00235866 UBER00235867 UBER00235868 UBER00235869	7/15/2016	7:42 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding news article on LiDAR.
386	UBER00076015	7/16/2016	8:00 AM	Anthony Levandowski	Dan Gruver; James Haslim; Brent Schwarz				E-Mail	Email regarding quote and orders from third party [REDACTED].
387	UBER00076017	7/16/2016	8:00 AM						Attachment	Attachment regarding quote from third party [REDACTED].
388	UBER00076020	7/16/2016	8:00 AM						Attachment	Attachment regarding order from third party [REDACTED].
389	UBER00076021	7/16/2016	8:00 AM						Attachment	Attachment regarding order from third party [REDACTED].
390	RON0000535 RON0000536 RON0000537 RON0000538 RON0000539 RON0000540 RON0000541	7/17/2016	6:14 PM	Anthony Levandowski	Lior Ron; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding laser discussion.
391	UBER00012003	7/19/2016	3:21 PM	Drew Bagnell	Raffi Krikorian; Rachel Keitzer				E-Mail	Email regarding Anthony's concerns with Ladar planning and future meetings.
392	UBER00076438	7/21/2016		Dan Gruver	Dan Gruver; Felipe Caldeira; Sara Glick; John Tobias; Daniel Shafir; Gaetan Pennecot; Adam Kenvarg; Will Tricher; George Lagui; Yuan Liu; Thomas Smith; Eyal Cohen; Anthony Levandowski; Max Levandowski; Ronen Sarig; Zandrea Rox; Michael Karasoff; Dante Rivera; Breant Schwarz; Ben Butin; Sameer Kshirsagar; Prashant Chouta; Matthew Palomar; Tri Luong; James Haslim; Paige Recker; Florin Ignatescu; Nancy Sun; Tanya Sumang; Filip Trojanek; Radu Raduta; Asheel Linaval; Soren Juelsgaard; Marlon Bocalan; Carolyn		Upstairs Fishbowl (Propeller Room) [ot.to_h16l0u3mvm6sg8qos43gsrjvh4@group.calendar.google.com]	737 Harrison Street, San Francisco	Calendar File	Calendar invitation to 7/21/2016 LiDAR standup meeting at 6:00-6:30pm.
393	UBER00011992	7/23/2016	2:51 AM	Rachel Keitzer	Drew Bagnell	Raffi Krikorian			E-Mail	Email regarding Anthony's concerns with Ladar planning and future meetings.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
394	UBER00011994	7/23/2016	11:47 AM	Rachel Keitzer	Raffi Krikorian	Drew Bagnell			E-Mail	Email regarding Anthony's concerns with Ladar planning and future meetings.
395	UBER00011997	7/23/2016	11:43 AM	Raffi Krikorian	Rachel Keitzer; Drew Bagnell				E-Mail	Email regarding Anthony's concerns with Ladar planning and future meetings.
396	UBER00011999	7/23/2016	11:20 AM	Drew Bagnell	Rachel Keitzer	Raffi Krikorian			E-Mail	Email regarding Anthony's concerns with Ladar planning and future meetings.
397	UBER00012001	7/23/2016	11:38 AM	Rachel Keitzer	Drew Bagnell	Raffi Krikorian			E-Mail	Email regarding Anthony's concerns with Ladar planning and future meetings.
398	UBER00012017	7/23/2016	1:37 AM	Rachel Keitzer	Raffi Krikorian				E-Mail	Email regarding meeting with Levandowski regarding LiDAR issues.
399	UBER00012018	7/23/2016	1:48 AM	Rachel Keitzer	Raffi Krikorian				E-Mail	Email regarding meeting with Levandowski regarding LiDAR issues.
400	UBER00065143	7/25/2016		Travis Kalanick	Travis Kalanick; Justin Ho; Jeff Miller; Anthony Levandowski; David Richter; Raffi Krikorian; Neil Stegall; Sherif Marakby; Noah Zych			3011 Smallman, Pittsburgh 1455 Market Street, San Francisco	Calendar File	Calendar invitation for 7/5/2016 "birdhouse" meeting at 8:30-10:00pm.
401	UBER00011975	7/26/2016	1:32 PM	Drew Bagnell	Scott Boehmke; Brian Zajack; Carl Wellington; Eric Meyhofer; Anthony Levandowski; Peter Melick; Drew Bagnell			3011 Smallman, Pittsburgh	Calendar File	Calendar invitation for 7/28/2016 Ladar planning meeting at 2:30-3:30pm.
402	UBER00011976	7/26/2016	1:32 PM	Drew Bagnell	Scott Boehmke; Brian Zajack; Carl Wellington; Eric Meyhofer; Anthony Levandowski; Peter Melick; Drew Bagnell			3011 Smallman, Pittsburgh	Calendar File	Calendar invitation for 7/28/2016 Ladar planning meeting at 2:30-3:30pm.
403	UBER00235917 UBER00235918 UBER00235919 UBER00235920 UBER00235921 UBER00235922 UBER00235923 UBER00235924 UBER00235925 UBER00235926	7/26/2016	7 08 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding lasers.
404	RON0020295	7/27/2016	4 26 AM	Anthony Levandowski	Lior Ron				Email	Email forwarding Bloomberg interview transcript.
405	UBER00235954 UBER00235956 UBER00235957 UBER00235958 UBER00235959 UBER00235960 UBER00235961 UBER00235962 UBER00235963 UBER00235964	7/29/2016	5 38 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding pucks.
406	RON0000578 RON0000579	8/2/2016	4 11 PM	Anthony Levandowski	Lior Ron; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding LiDAR news article.
407	UBER00075983	8/2/2016	6:00 PM	Anthony Levandowski	Dan Gruver	Lior Ron; James Haslim			E-Mail	Email discussing third party [REDACTED]
408	UBER00075959	8/4/2016	5:44 AM	Anthony Levandowski	Robbie Miller	Eng-ops [eng-ops@ot.to]			E-Mail	Email regarding status of vehicles as online or offline.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
409	UBER00076439	8/4/2016		Dan Gruver	Dan Ratner; Marlon Bocalan; Sara Glick; Paige Recker; Prashant Chouta; Asheem Linaval; Anthony Levandowski; Nancy Sun; Dante Rivera; Max Levandowski; James Haslim; Brent Schwarz; Yuan Liu; Filip Trojanek; Tanya Sumang; Florin Ignatescu; Michael Tocce; Sameer Kshirsagar; Matthew Palomar; Carolyn Finney; Radu Raduta; Daniel Shafir; Felipe Caldeira; Zandrea Roz; Michael Karasoff; Adam Kenvarg; Gaetan Pennecot; Ronen Sarig; George Lagui; Tri Luong; Thomas Smith; John Tobias; Soren Juelsgaard; Eyal Cohen; Will Treichler; Ben Butin		Upstairs Fishbowl (Propeller Room) [ot.to_h16l0u3mvm6sg8qos43gsrjvh4@group.calendar.google.com]	737 Harrison Street, San Francisco	Calendar File	Calendar invitation to 8/4/2016 LiDAR standup meeting at 9:30-10:00pm.
410	UBER00012196	8/4/2016	3:24 AM	Claire Delaunay	Soren Juelsgaard	Robbie Miller; Eng-ops [eng-ops@ot.to]			E-Mail	Email regarding need for Anthony to send info for radar drivers.
411	UBER00075962	8/5/2016	1:33 AM	Anthony Levandowski	Claire Delaunay	Otto Operations [otto-ops@ot.to]; Eng-ops [eng-ops@ot.to]			E-Mail	Email regarding LiDAR team releases.
412	UBER00076079	8/5/2016	9:00 PM	Anthony Levandowski	Michael Tocce	Soren Juelsgaard; Claire Delaunay; David Weikersdorfer; Robbie Miller			E-Mail	Email regarding priority list for vehicles and hardware.
413	UBER00012178	8/5/2016	2:50 AM	Claire Delaunay	Soren Juelsgaard	Anthony Levandowski; Otto Operations [otto-ops@ot.to]; Eng-ops [eng-ops@ot.to]; Lior Ron			E-Mail	Email discussing LiDAR testing with Anthony Levandowski.
414	UBER00012181	8/5/2016	2:10 AM	Lior Ron	Anthony Levandowski	Claire Delaunay; Otto Operations [otto-ops@ot.to]; Eng-ops [eng-ops@ot.to]			E-Mail	Email discussing LiDAR testing with Anthony Levandowski.
415	UBER00012182	8/5/2016	2:53 AM	Soren Juelsgaard	Claire Delaunay	Anthony Levandowski; Lior Ron; Eng-ops [eng-ops@ot.to]; Otto Operations [otto-ops@ot.to]			E-Mail	Email discussing LiDAR testing with Anthony Levandowski.
416	UBER00012187	8/5/2016	4:19 AM	Preston Delgado	Soren Juelsgaard	Claire Delaunay; Anthony Levandowski; Lior Ron; Eng-ops [eng-ops@ot.to]; Otto Operations [otto-ops@ot.to]			E-Mail	Email discussing LiDAR testing with Anthony Levandowski.
417	UBER00076242	8/6/2016	10:50 PM	Anthony Levandowski	Claire Delaunay				E-Mail	Email discussing overview of laser perception.
418	UBER00076158	8/6/2016	10:58 PM	Anthony Levandowski	Claire Delaunay	David Weikersdorfer			E-Mail	Email discussing overview of laser perception.
419	UBER00076151	8/6/2016	11:59 PM	Anthony Levandowski	David Weikersdorfer	Claire Delaunay			E-Mail	Email discussing overview of laser perception.
420	UBER00076045	8/7/2016	3:17 PM	Anthony Levandowski	Sameer Kshirsagar	Anthony Levandowski; Lior Ron			E-Mail	Email regarding quote and orders from third party [REDACTED]
421	UBER00006585	8/7/2016	3:17 PM	Anthony Levandowski	Sameer Kshirsagar	Anthony Levandowski; Lior Ron			E-Mail	Email update regarding fiber laser manufacturing.
422	UBER00012175	8/8/2016	3:57 PM	Brian Gagliardi	Michael Tocce; Scott Ryvola	Robbie Miller; Preston Delgado; Soren Juelsgaard; Claire Delaunay; Anthony Levandowski; Lior Ron; Eng-ops [eng-ops@ot.to]; Otto Operations			E-Mail	Email discussing LiDAR testing with Anthony Levandowski.
423	UBER00012184	8/8/2016	3:54 PM	Scott Ryvola	Michael Tocce	Robbie Miller; Preston Delgado; Soren Juelsgaard; Claire Delaunay; Anthony Levandowski; Lior Ron; Eng-ops [eng-ops@ot.to]; Otto Operations [otto-ops@ot.to]			E-Mail	Email discussing LiDAR testing with Anthony Levandowski.
424	UBER00076250	8/9/2016	10:51 AM	Anthony Levandowski	Claire Delaunay				E-Mail	Email regarding LiDAR testing.
425	UBER00076249	8/9/2016	4:30 PM	Anthony Levandowski	Claire Delaunay				E-Mail	Email regarding LiDAR testing.
426	UBER00076248	8/9/2016	5:12 PM	Anthony Levandowski	Claire Delaunay				E-Mail	Email regarding LiDAR testing.
427	UBER00076209	8/9/2016	8:02 PM	Anthony Levandowski	Don Burnette				E-Mail	Email discussing overview of laser perception.
428	UBER00006556	8/10/2016	4:03 AM	Anthony Levandowski	Sameer Kshirsagar	Lior Ron; Dan Gruver; James Haslim			E-Mail	Email regarding fiber laser purchases.
429	UBER00075987	8/10/2016	4:03 AM	Anthony Levandowski	Sameer Kshirsagar	Lior Ron; Dan Gruver; James Haslim			E-Mail	Email regarding potential LiDAR-related purchase orders.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
430	UBER00006587	8/10/2016	5:13 AM	Lior Ron	Sameer Kshirsagar	Anthony Levandowski; Dan Gruver; James Haslim			E-Mail	Email discussing upcoming laser purchases with Anthony Levandowski.
431	UBER00006589	8/10/2016	2:50 AM	Sameer Kshirsagar	Anthony Levandowski; Lior Ron	Dan Gruver; James Haslim	Sameer Kshirsagar		E-Mail	Email discussing upcoming laser purchases with Anthony Levandowski.
432	UBER00236017 UBER00236018 UBER00236019 UBER00236020 UBER00236021 UBER00236022 UBER00236023	8/10/2016	10 29 AM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding Velodyne.
433	RON0000595	8/10/2016	2 41 PM	Anthony Levandowski	Lior Ron; Anthony Levandowski				Text Message	Text message with Anthony Levandowski regarding laser team.
434	RON0000596 RON0000597 RON0000598	8/10/2016	3 00 PM	Anthony Levandowski	Lior Ron; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding LiDAR investment.
435	UBER00006597	8/10/2016	11:59 PM	Sameer Kshirsagar	Lior Ron; Anthony Levandowski		Sameer Kshirsagar		E-Mail	Email discussing upcoming laser purchases with Anthony Levandowski.
436	UBER00076008	8/12/2016	3:19 PM	Anthony Levandowski	Lior Ron	James Haslim; Claire Delaunay			E-Mail	Email regarding highway LiDAR data.
437	UBER00076009	8/12/2016	8:30 PM	Anthony Levandowski	Claire Delaunay	Lior Ron; James Haslim; Don Burnette			E-Mail	Email regarding highway LiDAR data.
438	UBER00076013	8/12/2016	10:47 PM	Anthony Levandowski	Don Burnette	Claire Delaunay; Lior Ron; James Haslim			E-Mail	Email regarding highway LiDAR data.
439	UBER00071289	8/15/2016	4:00 AM	Rachel Whetstone	Travis Kalanick; Anthony Levandowski	Jill Hazelbaker			Email	Email regarding publicity and technology.
440		8/15/2016	10:47 AM	Anthony Levandowski	Scott Boehmke				Text Messages	Text messages including video of LiDAR laser board and fiber configuration.
441	UBER00236090 UBER00236091	8/15/2016	10 43 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Message	Text message with LiDAR video.
442		8/15/2016	12:15 PM	Anthony Levandowski	Rani Wellington [Oryx]; Dan Gruver; James Haslim				Meeting	Presentation regarding third party [REDACTED] proprietary technology. Attendance by Anthony Levandowski for discussion of [REDACTED] technology and roadmap, including sensors for scanning system.
443	UBER00073682	8/16/2016	2:38 PM	Anthony Levandowski	Travis Kalanick				Text Message	Text message regarding news article about Ford investment in LiDAR.
444	UBER00065144	8/16/2016		Travis Kalanick	Travis Kalanick; Noah Zych; Anthony Levandowski; Jeff Miller; Sherif Marakby; Neil Stegall; Justin Ho; Raffi Krikorian; David Richter			3011 Smallman, Pittsburgh 1455 Market Street,	Calendar File	Calendar invitation for 8/16/2016 "birdhouse" meeting at 10:00-11:00pm.
445	UBER00086450	8/19/2016	9:42 AM	Sameer Kshirsagar	Sameer Kshirsagar; Anthony Levandowski				Text Message	Message regarding potential meeting to discuss fiber laser.
446	UBER00006561	8/19/2016	3:18 PM	Sameer Kshirsagar	Lior Ron; Anthony Levandowski		Sameer Kshirsagar		E-Mail	Email discussing third party autonomous mining solution LiDAR specifications with Anthony Levandowski.
447	UBER00011952	8/19/2016	8:54 AM						Document	Document regarding laser specifications.
448	UBER00006510	8/21/2016	7:09 PM	Sameer Kshirsagar	Lior Ron	Anthony Levandowski	Sameer Kshirsagar		E-Mail	Email discussing third party autonomous mining solution LiDAR specifications with Anthony Levandowski.
449	UBER00236129	8/22/2016	7 25 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Message	Text message with Anthony Levandowski regarding work on laser.
450	UBER00076792	8/23/2016		Anthony Levandowski	Lisa Weitekamp			3011 Smallman, Pittsburgh	Meeting	Meeting regarding AVMaps. No specific recollection regarding whether Anthony Levandowski attended in person or by Zoom.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
451	UBER00017127	8/23/2016	2:04 PM						Document	Document regarding laser specifications.
452	UBER00075993	8/24/2016	1:48 PM	Anthony Levandowski	James Haslim; Scott Boehmke	Gaetan Pennecot; Dan Gruver; Max Levandowski; Radu Raduta			E-Mail	Email regarding [REDACTED] lenses.
453	UBER00011148	8/24/2016	3:33 AM	James Haslim	Gaetan Pennecot; Dan Gruver; Max Levandowski; Anthony Levandowski; Radu Raduta				E-Mail	Email discussing [REDACTED] lenses for lasers.
454	UBER00301370 UBER00301371 UBER00301372	8/24/2016	7 38 PM	Anthony Levandowski	Don Burnette; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding Velodyne.
455		8/24/2016		Anthony Levandowski	Peter Melick			3011 Smallman, Pittsburgh	One-on-one conversation	One-on-one conversation with Anthony Levandowski regarding LiDAR simulations.
456	UBER00006517	8/26/2016	3:53 AM	Marlon Bocalan	Sameer Kshirsagar	Matthew Palomar; Dan Gruver; James Haslim; Anthony Levandowski			E-Mail	Email discussing status updates relating to [REDACTED]
457	UBER00086451	8/29/2016	6:20 PM	Sameer Kshirsagar	Sameer Kshirsagar; Anthony Levandowski				Text Message	Message regarding AC Photonics fiber laser.
458	UBER00065145	8/30/2016		Travis Kalanick	Travis Kalanick; Justin Ho; Jeff Miller; Valeria Chadha; Sherif Marakby; Raffi Krikorian; Noah Zych; Anthony Levandowski; David Richter; Neil Stegall			3011 Smallman, Pittsburgh 1455 Market Street, San Francisco	Calendar File	Calendar invitation for 8/30/2016 "birdhouse" meeting at 9:00-11:00pm.
459	UBER00301365	8/31/2016	11 29 AM	Anthony Levandowski	Don Burnette				Text Message	Text message with Anthony Levandowski regarding laser simulation.
460	UBER00076771	8/31/2016		Brian Zajac; Eric Meyhofer; Scott Boehmke; Nick Letwin				Otto office, San Francisco	Meeting (notes)	Notes from meeting regarding laser specifications and approach.
461		8/31/2016		Anthony Levandowski	Peter Melick; David Rice; Scott Boehmke; Eric Meyhofer; and potentially others			3011 Smallman, Pittsburgh	Meeting	Meeting with Anthony Levandowski regarding LiDAR design.
462		9/1/2016	9:07 AM	Anthony Levandowski	Brian McClendon				Text Message	Text message from Anthony Levandowski regarding use of [REDACTED].
463	UBER00076607	9/1/2016	9:08 AM	Anthony Levandowski					E-Mail	Email regarding use of [REDACTED]
464	UBER00076408	9/1/2016	6:15 PM	Anthony Levandowski	Matthew Prestopino	Brian McClendon; Nick Letwin			E-Mail	Email regarding [REDACTED] lasers.
465	UBER00076405	9/1/2016	11:13 PM	Anthony Levandowski	Matthew Prestopino	Nick Letwin; Brian McClendon			E-Mail	Email regarding [REDACTED] lasers.
466	UBER00076406	9/1/2016	11:59 PM	Anthony Levandowski	Matthew Prestopino	Nick Letwin			E-Mail	Email regarding [REDACTED] lasers.
467	UBER00076579	9/1/2016	1:45 AM	Anthony Levandowski	Michael Tocce; Soren Juelsgaard	Claire Delaunay; David Weikersdorfer			E-Mail	Email regarding lasers from third party [REDACTED]
468	UBER00076607	9/1/2016	4:08 PM	Anthony Levandowski	Brian McClendon				E-Mail	Email regarding lasers from third party [REDACTED]
469	UBER00069198	9/1/2016	5:11 PM	Brian McClendon	Anthony Levandowski; Matthew Prestopino				Email	Email regarding supply of [REDACTED]
470	UBER00069279	9/1/2016	6:15 PM	Anthony Levandowski	Matthew Prestopino	Brian McClendon; Nick Letwin			Email	Email regarding [REDACTED] lasers.
471	UBER00012457	9/1/2016	10:09 PM	Brian McClendon	Matthew Prestopino; Anthony Levandowski	Nick Letwin			E-Mail	Email regarding meeting with Anthony Levandowski and Otto regarding [REDACTED] sensors and LiDAR.
472	UBER00069083	9/1/2016	10:09 PM	Brian McClendon	Matthew Prestopino; Anthony Levandowski	Nick Letwin			E-Mail	Email regarding meeting with Anthony Levandowski and Otto regarding [REDACTED] sensors and LiDAR.
473	UBER00076170	9/2/2016	6:39 AM	Anthony Levandowski	Scott Boehmke; Raffi Krikorian; Eric Meyhofer				E-Mail	Email regarding laser calibration.
474	UBER00235543 UBER00235544	9/2/2016	4 24 PM	Anthony Levandowski	Eric Meyhofer; Scott Boehmke				Text Message	Text message with Anthony Levandowski attaching LiDAR photo.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
475	UBER00236141	9/2/2016	5:38 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Message	Text message with Anthony Levandowski regarding laser.
476		9/2/2016			Jeff Holden			737 Harrison Street, San Francisco	Meeting	Tour with Anthony Levandowski where Anthony may have mentioned LiDAR.
477	UBER00076644	9/3/2016	5:05 AM	Anthony Levandowski	James Haslim	Dan Gruver			E-Mail	Email regarding contact with third party [REDACTED]
478	UBER00076191	9/4/2016	2:19 AM	Anthony Levandowski	Scott Boehmke	Eric Meyhofer			E-Mail	Email regarding stopping distance.
479	UBER00236144 UBER00236145	9/5/2016	3:36 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding replacing Velodyne.
480	UBER00236153 UBER00236154 UBER00236155	9/6/2016	5:52 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding pucks.
481	UBER00063660	9/8/2016	1:03 PM	Sarah Abboud	ATC: ATC-Internal [ATC-Internal@uberatc.com]				E-Mail	Email referencing introduction and integration with Anthony Levandowski and Otto team.
482	UBER00012420	9/8/2016	1:25 AM	Euan Guttridge	Anthony Levandowski	Anthony Levandowski; Raffi Krikorian			E-Mail	Email regarding future meeting with Anthony Levandowski regarding LiDAR goals.
483	UBER00070605	9/8/2016	1:03 PM	Sarah Abboud	ATC: ATC-Internal [ATC-Internal@uberatc.com]				E-Mail	Email referencing introduction and integration with Anthony Levandowski and Otto team.
484	UBER00301373 UBER00301374 UBER00301375 UBER00301376 UBER00301377	9/8/2016	2:46 PM	Anthony Levandowski	Don Burnette; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding puck and localization.
485	UBER00301128 UBER00301129 UBER00301130	9/8/2016	2:51 PM	Anthony Levandowski	Don Burnette; Raffi Krikorian; Anthony Levandowski; Don Burnette				Text Messages	Text messages with Anthony Levandowski regarding puck.
486	UBER00301085 UBER00301094 UBER00301096 UBER00301098 UBER00301101	9/8/2016	2:52 PM	Anthony Levandowski	Don Burnette; Nick Letwin; Anthony Levandowski; Eric Meyhofer				Text Messages	Text messages with Anthony Levandowski regarding LiDAR and testing.
487	UBER00235518 UBER00235519 UBER00235520 UBER00235521 UBER00235522 UBER00235523 UBER00235524 UBER00235525 UBER00235526 UBER00235527	9/8/2016	5:50 PM	Anthony Levandowski	Eric Meyhofer; Nick Letwin; Don Burnette; Anthony Levandowski				Text Messages	Text messages from Anthony Levandowski regarding Velodyne LiDARs.
488	UBER00301101	9/9/2016	8:24 AM	Anthony Levandowski	Don Burnette; Nick Letwin; Anthony Levandowski; Eric Meyhofer				Text Message	Text message with Anthony Levandowski regarding LiDAR and testing.
489	UBER00075964	9/10/2016	10:06 AM	Anthony Levandowski	David Weikersdorfer	Preston Delgado; Eng-ops [eng-ops@ot.to]			E-Mail	Email regarding laser perception.
490	UBER00075958	9/10/2016	10:07 AM	Anthony Levandowski	David Weikersdorfer	Preston Delgado; Eng-ops [eng-ops@ot.to]			E-Mail	Email regarding laser perception.
491	UBER00075965	9/10/2016	10:30 AM	Anthony Levandowski	David Weikersdorfer	Eng-ops [eng-ops@ot.to]; Preston Delgado			E-Mail	Email regarding vehicle demonstration.
492	UBER00064344	9/10/2016	1:47 AM	Anthony Levandowski	[REDACTED]	Sebastian Thrun [thrun@udacity.com]			E-Mail	Email regarding potential meeting with third party vendor [REDACTED] representative [REDACTED]

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
493	UBER00076322	9/10/2016	4:57 PM	Anthony Levandowski	[REDACTED]	Sebastian Thrun [thrun@udacity.com]	Travis Kalanick		E-Mail	Email regarding potential meeting with third party vendor [REDACTED] representative [REDACTED].
494	UBER00069676	9/10/2016	4:57 PM	Anthony Levandowski	[REDACTED]	Sebastian Thrun [thrun@udacity.com]	Travis Kalanick		Email	Email regarding existing laser.
495	UBER00005951	9/10/2016	10:10 AM	David Weikersdorfer	Anthony Levandowski	Eng-ops [Eng-ops [eng-ops@ot.to]@ot.to]; Preston Delgado			E-Mail	Email discussing comparing laser systems with Anthony Levandowski.
496	UBER00005955	9/10/2016	5:06 PM	Claire Delaunay	Anthony Levandowski	David Weikersdorfer; Eng-ops [eng-ops@ot.to]; Preston Delgado			E-Mail	Email discussing comparing laser systems with Anthony Levandowski.
497	UBER00005959	9/10/2016	5:52 PM	Claire Delaunay	Anthony Levandowski	David Weikersdorfer; Eng-ops [eng-ops@ot.to]; Preston Delgado			E-Mail	Email discussing comparing laser systems with Anthony Levandowski.
498	UBER00012729	9/10/2016	5:52 PM	Claire Delaunay	Anthony Levandowski	David Weikersdorfer; Eng-ops [eng-ops@ot.to]; Preston Delgado			E-Mail	Email discussing comparing laser systems with Anthony Levandowski.
499	UBER00012731	9/10/2016	5:06 PM	Claire Delaunay	Anthony Levandowski	David Weikersdorfer; Eng-ops [eng-ops@ot.to]; Preston Delgado			E-Mail	Email discussing comparing laser systems with Anthony Levandowski.
500	UBER00012733	9/10/2016	10:10 AM	David Weikersdorfer	Anthony Levandowski	Eng-ops [eng-ops@ot.to]; Preston Delgado			E-Mail	Email discussing comparing laser systems with Anthony Levandowski.
501	RON0022484 RON0022485 RON0022486 RON0022487 RON0022488 RON0022489 RON0022490 RON0022491 RON0022492 RON0022493 RON0022494 RON0022495 RON0022496 RON0022497 RON0022498 RON0022499 RON0022500 RON0022501 RON0022502 RON0022503 RON0022504 RON0022505 RON0022506 RON0022507 RON0022508	9/11/2016	10 05 PM	Anthony Levandowski	Lior Ron; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding third party LiDAR supplier.
502	UBER00005953	9/11/2016	10:53 PM	Michael Tocce	Claire Delaunay	Anthony Levandowski; David Weikersdorfer; Eng-ops [eng-ops@ot.to]; Preston Delgado			E-Mail	Email discussing mapping a road with LiDAR passes with Anthony Levandowski.
503	UBER00012727	9/11/2016	10:53 PM	Michael Tocce	Claire Delaunay	Anthony Levandowski; David Weikersdorfer; Eng-ops [eng-ops@ot.to]; Preston Delgado			E-Mail	Email discussing mapping a road with LiDAR passes with Anthony Levandowski.
504	UBER00012075	9/12/2016	3:16 PM	Michael Tocce	Claire Delaunay	David Weikersdorfer; Anthony Levandowski; Eng-ops [eng-ops@ot.to]; Preston Delgado			E-Mail	Email discussing comparing laser systems with Anthony Levandowski.
505	UBER00005961	9/12/2016	2:08 AM	Claire Delaunay	Michael Tocce	David Weikersdorfer; Anthony Levandowski; Eng-ops [eng-ops@ot.to]; Preston Delgado			E-Mail	Email discussing mapping a road with LiDAR passes with Anthony Levandowski.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
506	UBER00012725	9/12/2016	2:08 AM	Claire Delaunay	Michael Tocce	David Weikersdorfer; Anthony Levandowski; Eng-ops [eng-ops@ot.to]; Preston Delgado			E-Mail	Email discussing mapping a road with LiDAR passes with Anthony Levandowski.
507	UBER00235528 UBER00235529 UBER00235530 UBER00235531 UBER00235532 UBER00235533 UBER00235534 UBER00235535 UBER00235536 UBER00235537 UBER00235538 UBER00235539 UBER00235540 UBER00235541	9/12/2016	6 55 PM	Anthony Levandowski	Eric Meyhofer; Nick Letwin; Don Burnette; Anthony Levandowski				Text Messages	Text messages from Anthony Levandowski regarding Velodyne LiDARs.
508	UBER00075994	9/13/2016	2:44 PM	Anthony Levandowski			James Haslim		E-Mail	Email regarding scheduling of visit to third party facility in Portola Valley.
509	UBER00076800	9/13/2016		Michael Tocce	Ambar Pansari; Bobby Parikh; Daniel Wolf; David Weikersdorfer; Drew Gray; Manik Gupta; Matthew Prestopino; Michael Tocce; Robbie Miller; Ted Summers; Waleed Kadous; Soren Juelsgaard; Anthony Levandowski; Claire Delaunay; Jur van den Berg			737 Harrison Street, San Francisco	Calendar File	Calendar invitation for 9/13/2016 vehicle demonstration from 12:30-1:50pm.
510	UBER00065146	9/13/2016		Travis Kalanick	Travis Kalanick; Noah Zych; Jeff Miller; Neil Stegall; Sherif Marakby; Anthony Levandowski; Raffi Krikorian; David Richter; Justin Ho			3011 Smallman, Pittsburgh 1455 Market Street, San Francisco	Calendar File	Calendar invitation for 9/13/2016 "birdhouse" meeting at 9:30-10:30pm.
511	UBER00086452	9/13/2016	9:00 AM	Sameer Kshirsagar	Sameer Kshirsagar; Anthony Levandowski				Text Message	Message regarding team roles with respect to LiDAR.
512	UBER00301116	9/14/2016	5 53 AM	Anthony Levandowski	Don Burnette; Nick Letwin; Anthony Levandowski; Eric Meyhofer				Text Message	Text message with Anthony Levandowski regarding LiDAR and testing.
513	UBER00301119 UBER00301120 UBER00301121 UBER00301122	9/14/2016	5 54 AM	Anthony Levandowski	Don Burnette; Nick Letwin; Anthony Levandowski; Eric Meyhofer				Text Messages	Text messages with Anthony Levandowski attaching photo of vehicle with LiDAR.
514	UBER00012416	9/14/2016	7:51 PM	Morgan Jones	Sean Hyde	ATC: UberValet [ubervalet@uberatc.com]			E-Mail	Email regarding discussions with Eric and Anthony for LiDAR implementation.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
515	UBER00076049	9/15/2016	7:59 PM	Anthony Levandowski	Eric Meyhofer; Raffi Krikorian; Matt Williams; Sherif Marakby; Austin Geidt; Claire Delaunay; Lior Ron				E-Mail	Email regarding lasers, fibers, components, and testing.
516	UBER00076440	9/15/2016		Dan Gruver	Dan Gruver; George Lagui; Sameer Kshirsagar; Prashant Chouta; Yuan Liu; Filip Trojanek; Anthony Levandowski; Michael Karasoff; Radu Raduta; Tanya Sumang; Paige Recker; Gaetan Pennecot; Asheem Linaval; Marlon Bocalan; Dante Rivera; Zandrea Rox; Soren Juelsgaard; Felipe Caldeira; Sara Glick; Nancy Sun; Tri Luong; John Tobias; Florin Ignatescu; Max Levandowski; James Haslim; Brent Schwarz; Carolyn Finney; Adam Kenvar; Ronen Sarig; Matthew Palomar; Thomas Smith; Daniel Shafir; Will Treichler; Ben Butin; Eyal Cohen; Michael Tocce		Upstairs Fishbowl (Propeller Room) [ot.to_h16l0u3mvm6sg8qos43gsrjvh4@group.calendar.google.com]	737 Harrison Street, San Francisco	Calendar File	Calendar invitation to 9/15/2016 LiDAR standup meeting at 6:00-6:30pm.
517	UBER00076570	9/15/2016		Anthony Levandowski	Matt Williams; Euan Gutteridge; Raffi Krikorian; Eric Meyhofer; Sherif Marakby; Austin Geidt; Claire Delaunay; Lior Ron				Document	Document regarding laser specifications for testing.
518	UBER00008590	9/16/2016	7:15 PM	James Haslim	Scott Boehmke				E-Mail	Email regarding beam spacing.
519	UBER00076798	9/16/2016		Jeff Miller	Anthony Levandowski; Mason Feldman				Calendar File	Calendar invitation for 9/16/2016 LiDAR phone call at 2:00-2:15pm.
520	UBER00086453	9/16/2016	12:03 PM	Sameer Kshirsagar	Sameer Kshirsagar; Anthony Levandowski				Text Message	Message regarding potential meeting to discuss timing, performance, and industrialization of LiDAR.
521	UBER00236166	9/16/2016	3 17 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Message	Text message with Anthony Levandowski regarding LiDAR specs discussion with Jeff Miller.
522	UBER00236168 UBER00236169 UBER00236170 UBER00236171 UBER00236172 UBER00236173	9/17/2016	9 47 AM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding LiDAR results from testing incident.
523	UBER00065147	9/19/2016		Travis Kalanick	Travis Kalanick; Jeff Miller; Raffi Krikorian; Anthony Levandowski; Scott Boehmke; Brian Zajac; Justin Ho; Sherif Marakby; Neil Stegall; Noah Zych; David Richter			3011 Smallman, Pittsburgh 1455 Market Street, San Francisco	Calendar File	Calendar invitation for 9/19/2016 "birdhouse" meeting at 8:00-9:00pm.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
524	UBER00075506	9/19/2016		Scott Boehmke					Meeting (notes)	Notes from 9/19/2016 "birdhouse" meeting, including reference to Otto becoming "Tier 1 making LIDAR."
525	UBER00076770	9/19/2016		Brian Zajac					Meeting (notes)	Notes from 9/19/2016 "birdhouse" meeting.
526		9/19/2016	10:19 AM	Mason Feldman	Anthony Levandowski				Text Message	Message regarding scheduled 9/19/16 "Birdhouse Jam" meeting with Travis Kalanick at 1:00-3:00pm and meeting with Jeff Miller to discuss LIDAR, mapping, and OEM/Android approach.
527	UBER00076260	9/21/2016	12:00 AM	Anthony Levandowski	David LaRose	Sean Hyde	Eric Meyhofer		E-Mail	Email regarding laser perception and safety curtain.
528	UBER00236176 UBER00236177 UBER00236178 UBER00236179 UBER00236180 UBER00236181	9/21/2016	3 24 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding Velodyne.
529	UBER00076232	9/22/2016	6:21 AM	Anthony Levandowski	David LaRose	Sean Hyde			E-Mail	Email regarding laser perception and safety curtain.
530	UBER00073590	9/22/2016	7:50 AM	Anthony Levandowski	Travis Kalanick				Text Message	Text message regarding quotes from Elon Musk regarding LIDAR.
531	UBER00076270	9/22/2016	3:34 PM	Anthony Levandowski	Eric Meyhofer	Matt Sweeney			E-Mail	Email regarding third party [REDACTED] LIDAR.
532	UBER00076265	9/22/2016	3:38 PM	Anthony Levandowski	Eric Meyhofer	Matt Sweeney			E-Mail	Email regarding third party [REDACTED] LIDAR.
533	UBER00011180	9/22/2016	3:31 AM	Gaetan Pennecot	James Haslim; Max Levandowski; Dan Gruver; Radu Raduta; Anthony Levandowski				E-Mail	Email with Anthony Levandowski regarding simulation of 8 channels.
534	UBER00236184 UBER00236185 UBER00236186 UBER00236187	9/23/2016	3 42 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding Velodyne LIDARs.
535	UBER00301553 UBER00301554	9/23/2016		Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Message	Text message with Anthony Levandowski attaching LIDAR video.
536	UBER00235444 UBER00235445 UBER00235446 UBER00235447 UBER00235448 UBER00235449 UBER00235450 UBER00235451 UBER00235452 UBER00235453 UBER00235454	9/26/2016	3 08 PM	Anthony Levandowski	Eric Meyhofer; Soren Juelsgaard				Text Messages	Text messages from Anthony Levandowski regarding Velodyne LIDARs.
537	UBER00076714	9/26/2016	10:55 PM	Anthony Levandowski	Cameron Poetzsch	Nina Qi; Lior Ron			E-Mail	Email regarding third party [REDACTED]
538	UBER00006669	9/26/2016	12:18 PM	Brian Zajac	Sameer Kshirsagar	Eric Meyhofer; Harold Hall; Lior Ron; Anthony Levandowski; Sherif Marakby			E-Mail	Email discussing [REDACTED] for possible integration of AV components including LIDAR with Anthony Levandowski.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
539	UBER00006671	9/26/2016	12:57 PM	Sherif Marakby	Eric Meyhofer	Brian Zajac; Sameer Kshirsagar; Harold Hall; Lior Ron; Anthony Levandowski; Ophir Samson			E-Mail	Email discussing [REDACTED] for possible integration of AV components including LiDAR with Anthony Levandowski.
540	UBER00006675	9/26/2016	3:16 AM	Sameer Kshirsagar	Eric Meyhofer; Brian Zajac; Harold Hall	Lior Ron; Anthony Levandowski; Sherif Marakby	Sameer Kshirsagar		E-Mail	Email discussing [REDACTED] for possible integration of AV components including LiDAR with Anthony Levandowski.
541	UBER00236189 UBER00236190	9/27/2016	2:04 AM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding lenses and attaching video.
542	UBER00236191	9/27/2016	7:36 AM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Message	Text messages with Anthony Levandowski regarding laser.
543	UBER00236192 UBER00236193	9/27/2016	6:04 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Message	Text message with Anthony Levandowski regarding Velodyne.
544	UBER00065148	9/27/2016		Travis Kalanick	Travis Kalanick; Neil Stegall; Justin ho; Sherif Marakby; Noah Zych; Jeff Miller;			3011 Smallman, Pittsburgh	Calendar File	Calendar invitation for 9/27/2016 "birdhouse" meeting at 9:30-11:00pm.
545	UBER00076733	9/28/2016	12:30 AM	Anthony Levandowski	Zac Wawter				E-Mail	Email regarding LiDAR and valet project.
546	UBER00076735	9/28/2016	10:49 PM	Anthony Levandowski	undisclosed-recipients	Zac Wawter			E-Mail	Email regarding LiDAR and valet project.
547	UBER00065374	9/28/2016		Anthony Levandowski	Travis Kalanick; Jeff Holden; Brian McClendon		[See document]		E-Mail	Email regarding laser secondary safety mechanisms.
548	UBER00086454	9/28/2016	7:14 AM	Sameer Kshirsagar	Sameer Kshirsagar; Anthony Levandowski				Text Message	Message regarding status of LiDAR production plan.
549	UBER00006610	9/28/2016	3:31 PM	Sameer Kshirsagar	Lior Ron	Anthony Levandowski	Sameer Kshirsagar		E-Mail	Email discussing LiDAR related strategy with Anthony Levandowski.
550	UBER00006616	9/28/2016	5:01 AM	Lior Ron	Sameer Kshirsagar	Anthony Levandowski			E-Mail	Email discussing LiDAR related strategy with Anthony Levandowski.
551	UBER00006618	9/28/2016	4:49 AM	Sameer Kshirsagar	Anthony Levandowski; Lior Ron		Sameer Kshirsagar		E-Mail	Email discussing LiDAR related strategy with Anthony Levandowski.
552	UBER00236236 UBER00236237 UBER00236238 UBER00236239 UBER00236240 UBER00236242 UBER00236243 UBER00236244 UBER00236245	9/28/2016	9:02 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding Velodyne and LiDAR.
553	UBER00076730	9/29/2016	6:23 AM	Anthony Levandowski	Zac Wawter				E-Mail	Email regarding LiDAR and valet project.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
554	UBER00236246 UBER00236247 UBER00236248 UBER00236249 UBER00236250 UBER00236251 UBER00236252 UBER00236253 UBER00236254 UBER00236255 UBER00236256 UBER00236257 UBER00236258 UBER00236259 UBER00236260 UBER00236261 UBER00236262 UBER00236263 UBER00236264 UBER00236265 UBER00236266 UBER00236267 UBER00236268 UBER00236269 UBER00236270 UBER00236271	9/29/2016	1:55 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding laser.
	UBER00236273 UBER00236274 UBER00236275 UBER00236276	(cont)								
555	UBER00236307 UBER00236308 UBER00236309	9/29/2016	10:30 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski attaching Velodyne LiDAR photo.
556	UBER00076441	9/29/2016		Dan Gruver	Dan Gruver; Radu Raduta; Florin Ignatescu; James Haslim; Felipe Caldeira; Tanya Sumang; Brent Schwarz; Filip Trojane; Anthony Levandowski; Will Treichler; Matthew Palomar; Zandrea Roz; Michael Tocce; Ronen Sarig; Yuan Liu; George Lagui; Thomas Smith; John Tobias; Paige Recker; Tri Luong; Carolyn Finney; Sameer Kshirsagar; Gaetan Pennecot; Sara Glick; Prashant Chouta; Daniel Shafir; Ben Butin; Eyal Cohen; Soren Juelsgaard; Max Levandowski; Dante Rivera; Marlon Bocalan; Adam Kenvarg; Michael Karasoff; Asheem Linaval; Nancy Sun		Upstairs Fishbowl (Propeller Room) [ot.to_h16l0u3mvm6sg8qos43gsrjvh4@group.calendar.google.com]	737 Harrison Street, San Francisco	Calendar File	Calendar invitation to 9/29/2016 LiDAR standup meeting at 6:00-6:30pm.
557	UBER00236310 UBER00236311 UBER00236312	9/30/2016	12:57 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski attaching whiteboard photos.
558	UBER00075971	9/30/2016	5:52 PM	Anthony Levandowski	David Weikersdorfer	Luis Arciniegas; AB inBev [ab-inbev@ot.to]; Eng-ops [eng-ops@ot.to];			E-Mail	Email regarding vehicle shift debrief.
559	UBER00075989	9/30/2016	7:45 PM	Anthony Levandowski	Dan Gruver	[REDACTED] James Haslim			E-Mail	Email regarding scheduling of visit to third party [REDACTED] facility in Portola Valley.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
560	UBER00076737	10/2/2016	4:18 AM	Anthony Levandowski	Zac Vawter				E-Mail	Forwarded calendar invite for 10/3/2016 virtual bumper project meeting at 12:00-1:00pm.
561	UBER00076791	10/3/2016		Anthony Levandowski	Mike Dacko; Morgan Jones; Michael Bode; Sean Hyde; Zac Vawter; Dan Tascione; Jordan Brindza; Don Burnette; Eric Meyhofer; Pam Cardona; Anthony Levandowski; Scott Boehmke; Raffi Krikorian; David Rice; James Gasbarro; Matt Sweeney; Robbie Miller; Mark Sibenac			50 33rd Street, Pittsburgh	Meeting	Calendar invitation for 10/3/2016 virtual bumper program meeting at 3:00-4:00pm.
562	UBER00076351	10/4/2016	8:48 PM	Google Calendar [calendar-notification@google.com]	Jeff Miller			1455 Market Street, San Francisco	Calendar File	Calendar invite to 10/5/16 Otto and [REDACTED] LiDAR meeting at 2:00pm.
563	UBER00076353	10/4/2016	8:48 PM	Anthony Levandowski	Jeff Miller; Anthony Levandowski			1455 Market Street, San Francisco	Calendar File	Calendar invite to 10/5/16 Otto and [REDACTED] LiDAR meeting at 2:00pm.
564	UBER00065216	10/4/2016		Travis Kalanick	Travis Kalanick; Gautam Gupta; Matt Burton; Lior Ron; Jeff Miller; Anthony Levandowski; Austin Geidt; Rajiv Krishnarao; David Richter; Matt Williams; Eric Meyhofer; Neil Stegall; Sherif Marakby; Matt Sweeney; Raffi Krikorian; Noah Zych; Emil Michael			1455 Market Street, San Francisco	Calendar File	Calendar invitation for 10/4/2016 "birdhouse" meeting at 9:30-11:30pm.
565	UBER00011187	10/5/2016	12:30 AM	Gaetan Pennecot	Dan Gruver	James Haslim; Max Levandowski; Radu Raduta; Anthony Levandowski			E-Mail	Email discussing LiDAR simulation testing with Anthony Levandowski.
566	UBER00236318 UBER00236319	10/6/2016	1 05 AM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding lasers.
567	UBER00076442	10/6/2016		Dan Gruver	Dan Gruver; Yuan Lin; Max Levandowski; Gaetan Pennecot; Tanya Sumang; Zandrea Roz; Will Treichler; Anthony Levandowski; Felipe Caldeira; Michael Tocce; Matthew Palomar; Adam Kenvarg; Sara Glick; Soren Juelsgaard; Eyal Cohen; Michael Karasoff; Prashant Chouta; Ben Butin; Filip Trojanek; Sameer Kshirsagar; Thomas Smith; Brent Schwarz; Daniel Shafir; Ronen Sarig; Nancy Sun; Dante Rivera; George Lagui; James Haslim; Tri Luong; Paige Recker; Radu Raduta; Florin Ignatescu; Carolyn Finney; Asheem Linaval; Marlon Bocalan; John Tobias		Upstairs Fishbowl (Propeller Room) [ot.to_h16l0u3mvm6sg8qos43gsrjvh4@group.calendar.google.com]	737 Harrison Street, San Francisco	Calendar File	Calendar invitation to 10/6/2016 LiDAR standup meeting at 6:00-6:30pm.
568	UBER00065210	10/7/2016		Travis Kalanick	Travis Kalanick; Jamie Epifano; Mike Wong; Matt Burton; Matt Williams; Noah			1455 Market Street, San Francisco	Calendar File	Calendar invitation for 10/7/2016 "birdhouse" meeting at 6:00-8:00pm.
569	UBER00076083	10/11/2016	4:22 AM	Google Calendar [calendar-notification@google.com]	Michael Tocce				Calendar File	Declined calendar invite to 10/12/2016 laser systems meeting at 4:00 pm.
570	UBER00076084	10/11/2016	4:22 AM	Anthony Levandowski	Michael Tocce; Anthony Levandowski				Calendar File	Declined calendar invite to 10/12/2016 laser systems meeting at 4:00 pm.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
571	UBER00005968	10/11/2016	5:42 PM	Anthony Levandowski	atc-otto-org@uber.com				E-Mail	Email regarding company update and Q4 OKRs.
572	UBER00076707	10/12/2016	10:09 AM	Anthony Levandowski	Zac Vawter	Don Burnette			E-Mail	Email regarding LiDAR team developments.
573	UBER00236321 UBER00236322	10/13/2016	1 18 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding LiDAR.
574	UBER00236323 UBER00236324 UBER00236325 UBER00236326 UBER00236327 UBER00236328	10/13/2016	9 12 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding LiDAR news article.
575	UBER00076802	10/13/2016		Nina Qi	Anthony Levandowski				Meeting (notes)	Notes from 10/13/2016 ATG mapping meeting.
576	UBER00076307	10/14/2016	1:51 AM	Anthony Levandowski	Carlos Vallespi-Gonzalez				E-Mail	Email regarding lidar range imaging.
577	UBER00076220	10/14/2016	1:51 AM	Anthony Levandowski	Don Burnette; Zac Vawter				E-Mail	Email regarding lidar range imaging.
578	UBER00012408	10/14/2016	1:28 PM	Carlos Vallespi-Gonzalez	Anthony Levandowski				E-Mail	Email regarding discussion with Anthony Levandowski on LiDAR range images.
579	UBER00076308	10/15/2016	12:00 AM	Anthony Levandowski	Carlos Vallespi-Gonzalez				E-Mail	Email regarding lidar range imaging.
580	UBER00012407	10/15/2016	12:00 AM	Anthony Levandowski	Carlos Vallespi-Gonzalez				E-Mail	Email regarding LiDAR and camera system functionality.
581	UBER00236329 UBER00236330 UBER00236331	10/17/2016	12 48 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding Velodyne.
582	UBER00076121	10/18/2016	11:21 PM	Anthony Levandowski	valet@uberatc.com	Don Burnette; Andrew Gray; Jeff Kiske			E-Mail	Email regarding camera and laser testing.
583	UBER00076126	10/18/2016	11:34 PM	Anthony Levandowski	Andrew Gray	Raffi Krikorian; Sean Hyde; valet@uberatc.com; Don Burnette; Jeff			E-Mail	Email regarding camera and laser testing.
584	UBER00006626	10/18/2016	3:49 AM	Sameer Kshirsagar	Eric Meyhofer; Sherif Marakby; Lior Ron; Anthony Levandowski	Prashant Chouta			E-Mail	Email discussing Infineon and LiDAR with Anthony Levandowski.
585	UBER00236335 UBER00236336 UBER00236337 UBER00236338 UBER00236339 UBER00236340 UBER00236341 UBER00236342 UBER00236343 UBER00236344 UBER00236345 UBER00236346 UBER00236347 UBER00236348 UBER00236349 UBER00236350 UBER00236351 UBER00236352 UBER00236353 UBER00236354 UBER00236355 UBER00236356 UBER00236357 UBER00236358 UBER00236359 UBER00236360	10/19/2016	10 34 AM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding third parties Veoldyne and Luminar.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
	UBER00236362 UBER00236363 UBER00236364 UBER00236365 UBER00236366 UBER00236367 UBER00236368 UBER00236369 UBER00236370 UBER00236371 UBER00236372 UBER00236373 UBER00236377 UBER00236378 UBER00236379	(cont)								
586	UBER00076124	10/19/2016	8:37 PM	Anthony Levandowski	Jeff Kiske; Andrew Gray; Don Burnette				E-Mail	Email regarding camera and laser testing.
587		10/19/2016	6:06 AM	Anthony Levandowski	Gaetan Pennecot				Text Messages	Text messages from Anthony Levandowski regarding photo of unspecified third party LiDAR.
588		10/19/2016	5:14 PM	Anthony Levandowski	Gaetan Pennecot				Text Messages	Text messages from Anthony Levandowski regarding unspecified third party LiDAR.
589		10/19/2016	6:29 PM	Anthony Levandowski	Gaetan Pennecot				Text Messages	Text messages from Anthony Levandowski regarding unspecified third party LiDAR.
590	UBER00065211	10/20/2016		Travis Kalanick	Travis Kalanick; Matt Williams; Matt Sweeney; Raffi Krikorian; Emil Michael; Rajiv Krishnarao; Gautam Gupta; Lior Ron; Austin Geidt; Neil Stegall; Matt Burton; Anthony Levandowski; David Richter; Eric Meyhofer; Jeff Miller; Sherif Marakby; Noah Zych			1455 Market Street, San Francisco	Calendar File	Calendar invitation for 10/20/2016 "birdhouse" meeting at 5:00-6:00pm.
591	UBER00012048	10/20/2016	6:52 PM	Drew Bagnell	Raffi Krikorian		ATC-Internal@uberatc.com		E-Mail	Reference to Anthony regarding AV hitting low-height stuff.
592	UBER00012403	10/20/2016	12:32 AM	Andrew Gray	Valet [valet@uberatc.com]				E-Mail	Summary and notes from meeting regarding virtual bumper concept proposed by Anthony.
593	UBER00076689	10/23/2016	3:24 AM	Anthony Levandowski	Claire Delaunay				E-Mail	Email regarding laser from third party [REDACTED]
594	UBER00012675	10/23/2016	7:12 PM	Drew Bagnell	Anthony Levandowski				E-Mail	Email regarding "Autonomy Next Steps" with discussion from Anthony regarding virtual bumper.
595		10/23/2016	2:36 PM	James Haslim	Anthony Levandowski				Text Message	Text message regarding sensor discussion.
596		10/23/2016	5:16 PM	Anthony Levandowski	James Haslim				Text Message	Text message regarding scheduling conversations with Anthony Levandowski on sensor discussion.
597	UBER00076398	10/24/2016	5:50 PM	Google Calendar [calendar-notification@google.com]	Dan Gruver				Calendar File	Declined calendar invite to 10/24/16 Lidar Monday Standup meeting at 11:00am.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
598	UBER00012701	10/24/2016	11:11 AM	Drew Bagnell	Anthony Levandowski				E-Mail	Email regarding meeting with Anthony Levandowski regarding "Autonomy Next Steps."
599	UBER00076569	10/25/2016	2:56 PM	Robert Zlot					Document	Document regarding categories of questions for recruiting interviews.
600	UBER00076773	10/26/2016		Anthony Levandowski	Carl Wellington			50 33rd Street, Pittsburgh	Meeting (notes)	One-on-one meeting with Anthony Levandowski, including discussion of LiDAR status updates.
601	UBER00008592	10/26/2016	12:42 PM	Eric Meyhofer	James Haslim	Scott Boehmke; Dan Gruver			E-Mail	Email discussing LiDAR development with Anthony Levandowski.
602	UBER00008592	10/26/2016	12:42 PM	Eric Meyhofer	James Haslim	Scott Boehmke; Dan Gruver			E-Mail	Email regarding LiDAR design, including reference to conversation between Eric Meyhofer and Anthony Levandowski.
603	UBER00236385 UBER00236386 UBER00236387 UBER00236388 UBER00236389 UBER00236390	10/26/2016	2 38 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding laser discussion.
604	UBER00012401	10/27/2016	2:32 PM	Anthony Levandowski	Eric Meyhofer				Text Messages	Text messages with Anthony Levandowski regarding [REDACTED] laser.
605	UBER00076119	10/27/2016	9:31 PM	Anthony Levandowski	Drew Bagnell	Drew Gray; Jeff Kiske; Jeff Schneider; Don Burnette; Michael Bode			E-Mail	Email regarding free space annotation.
606	UBER00076443	10/27/2016		Dan Gruver	Dan Gruver; Sameer Kshirsagar; Radu Raduta; James Haslim; Thomas Smith; Sara Glick; Filip Trojane; Prashant Chouta; Michael Tocce; Yuan Lin; Tri Luong; Anthony Levandowski; Soren Juelsgaard; Daniel Shafir; Michael Karasoff; Asheem Linaval; Florin Ignatescu; Paige Recker; Carolyn Finney; Dante Rivera; Will Treichler; George Lagui; Tanya Sumang; Matthew Palomar; Ben Butin; Felipe Caldeira; Zandrea Rox; Gaetan Pennecot; John Tobias; Anthony Levandowski; Eyal Cohen; Max Levandowski; Adam Kenvar; Ronen Sarig; Nancy Sun; Brent Schwarz; Marlon Bocalan		Upstairs Fishbowl (Propeller Room) [ot.to_h16l0u3mvm6sg8qos43gsrjvh4 @group.calendar.google.com]	737 Harrison Street, San Francisco	Calendar File	Calendar invitation to 10/27/2016 LiDAR standup meeting at 6:00-6:30pm.
607	UBER00012397	10/27/2016	11:51 PM	Jeff Schneider	Anthony Levandowski; Drew Bagnell	Drew Gray; Jeff Kiske; Don Burnette; Michael Bode			E-Mail	Email regarding discussions with and suggestions from Anthony as to LiDAR systems.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
608	UBER00012401	10/27/2016	9:17 PM	Drew Bagnell	Drew Gray; Jeff Kiske; Jeff Schneider	Anthony Levandowski; Don Burnette; Michael Bode			E-Mail	Email regarding discussions with and suggestions from Anthony as to LiDAR systems.
609	UBER00087034 UBER00087035	10/27/2016		Anthony Levandowski	Max Levandowski				Text Message	Text message regarding scheduling LiDAR discussion.
610	UBER00076293	10/28/2016	3:14 AM	Google Calendar [calendar-notification@google.com]	Mason Feldman				Calendar File	Calendar invite to 10/27/16 LiDAR standup meeting at 11:00am.
611	UBER00076295	10/28/2016	3:14 AM	Dan Gruver	John Tobias; Adam Kenvarg; Benjamin Butin; Michael Tocce; Prashant Chouta; Gaetan Pennecot; Florin Ignatescu; Sameer Kshirsagar; James Haslim; Nancy Sun; Thomas Smith; Asheem Linaval; Filip Trojanek; Matthew Palomar; Max Levandowski; William Treichler; Radu Raduta; Eyal Cohen; Tanya Sumang; George Lagui; Marlon Bocalan; Dante Rivera; Felipe Caldiera; Sara Glick; Ronen Sarig; Carolyn Finney; Paige Recker; Dan Gruver; Zandrea Rox; Soren Juelsgaard; Tri Luong		Upstairs Fishbowl (Propeller Room) [ot.to_h16l0u3mvm6sg8qos43gsrjvh4@group.calendar.google.com]		Calendar File	Calendar invite to 10/27/16 LiDAR standup meeting at 11:00am.
612	UBER00076296	10/28/2016	3:14 AM	Google Calendar [calendar-notification@google.com]	Mason Feldman; John Tobias; Adam Kenvarg; Benjamin Butin; Michael Tocce; Prashant Chouta; Gaetan Pennecot; Florin Ignatescu; Sameer Kshirsagar; James Haslim; Nancy Sun; Thomas Smith; Asheem Linaval; Filip Trojanek; Matthew Palomar; Max Levandowski; William Treichler; Radu Raduta; Eyal Cohen; Tanya Sumang; George Lagui; Marlon Bocalan; Dante Rivera; Felipe Caldiera; Sara Glick; Ronen Sarig; Carolyn Finney; Dan Gruver; Zandrea Rox; Brent Schwarz; Soren Juelsgaard; Tri Luong				Calendar File	Calendar invite to 10/27/16 LiDAR standup meeting at 11:00am.
613	UBER00076298	10/28/2016	3:14 AM	Dan Gruver	John Tobias; Adam Kenvarg; Benjamin Butin; Michael Tocce; Prashant Chouta; Gaetan Pennecot; Florin Ignatescu; Sameer Kshirsagar; James Haslim; Nancy Sun; Thomas Smith; Asheem Linaval; Filip Trojanek; Matthew Palomar; Max Levandowski; William Treichler; Radu Raduta; Eyal Cohen; Tanya Sumang; George Lagui; Marlon Bocalan; Dante Rivera; Felipe Caldiera; Sara Glick; Ronen Sarig; Carolyn Finney; Paige Recker; Dan Gruver; Zandrea Rox; Soren Juelsgaard; Tri Luong		Upstairs Fishbowl (Propeller Room) [ot.to_h16l0u3mvm6sg8qos43gsrjvh4@group.calendar.google.com]		Calendar File	Calendar invite to 10/27/16 LiDAR standup meeting at 11:00am.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
614	UBER00076402	10/28/2016	3:14 AM	Google Calendar [calendar-notification@google.com]	Dan Gruver				Calendar File	Accepted calendar invite to 10/27/16 LiDAR standup meeting at 11:00am.
615	UBER00076404	10/28/2016	3:14 AM	Anthony Levandowski	Dan Gruver; Anthony Levandowski				Calendar File	Accepted calendar invite to 10/27/16 LiDAR standup meeting at 11:00am.
616	UBER00008595	10/28/2016	5:09 AM	James Haslim	Scott Boehmke				E-Mail	Email nothing discussions regarding optical layout, noting that Anthony Levandowski came into the meeting.
617	UBER00012394	10/28/2016	2:13 AM	Drew Bagnell	Anthony Levandowski	Don Burnette			E-Mail	Email regarding discussions with and suggestions from Anthony as to LiDAR systems.
618	UBER00098311	10/28/2016	10:55 AM	Scott Boehmke	James Haslim				E-Mail	Email regarding notes from discussion of Fuji, and noting Anthony Levandowski attended discussions.
619	UBER00075996	10/30/2016	4:48 PM	Anthony Levandowski	[REDACTED]	Dan Gruver; James Haslim			E-Mail	Email regarding scheduling of meeting with Austin Russell of third party [REDACTED]
620	UBER00065212	11/1/2016		Travis Kalanick	Travis Kalanick; Matt Williams; Matt Sweeney; Raffi Krikorian; Emil Michael; Rajiv Krishnarao; Gautam Gupta; Lior Ron; Austin Geidt; Neil Stegall; Matt Burton; Anthony Levandowski; David Richter; Eric Meyhofer; Jeff Miller; Sherif Marakby; Noah Zych			1455 Market Street, San Francisco	Calendar File	Calendar invitation for 11/1/2016 "birdhouse" meeting at 9:30-11:30pm.
621	UBER00076566	11/2/2016		Anthony Levandowski	Matt Williams; Julie Viray; Raffi Krikorian; Lior Ron; Eric Meyhofer; Matt Sweeney; Austin Geidt				Document	Document regarding NSD strategy.
622	UBER00076427	11/3/2016		Dan Gruver	Dan Gruver; Anthony Levandowski; Mason Feldman; James Haslim			737 Harrison Street, San Francisco	Calendar File	Calendar invitation for November 3, 2016 meeting with third party [REDACTED] at 7:00 p.m.
623	UBER00086455	11/3/2016	6:56 PM	Sameer Kshirsagar	Eric Meyhofer; Sameer Kshirsagar				Text Message	Message regarding staff meeting to discuss LiDAR.
624	UBER00236462 UBER00236463 UBER00236464	11/3/2016	7:45 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding third party Luminar.
625	UBER00076285	11/4/2016	3:20 AM	Anthony Levandowski	Sameer Kshirsagar	Eric Meyhofer			E-Mail	Email regarding data sheet from third party [REDACTED]
626	UBER00086445	11/4/2016	6:00 AM	Sameer Kshirsagar	Eric Meyhofer; Sameer Kshirsagar; Anthony Levandowski				Text Message	Message regarding pulse width.
627	UBER00086446	11/4/2016	8:55 AM	Anthony Levandowski	Eric Meyhofer; Sameer Kshirsagar; Anthony Levandowski				Text Message	Message regarding pulse width.
628	UBER00086447	11/4/2016	8:56 AM	Anthony Levandowski	Eric Meyhofer; Sameer Kshirsagar; Anthony Levandowski				Text Message	Message regarding pulse width.
629	UBER00006645	11/4/2016	3:20 AM	Anthony Levandowski	Sameer Kshirsagar	Eric Meyhofer			E-Mail	Email regarding LiDAR-related supplier [REDACTED]
630	UBER00006650	11/4/2016	3:15 AM	Sameer Kshirsagar	Anthony Levandowski	Eric Meyhofer			E-Mail	Email discussing [REDACTED] datasheet and potential follow-up call with Anthony Levandowski.
631	UBER00069122	11/8/2016	11:53 PM	Google Calendar [calendar-notification@google.com]	Anthony Levandowski			Pittsburgh	Calendar File	Accepted calendar invitation for 11/16/2016 meeting at 5:30-6:00pm.
632	UBER00069123	11/8/2016	11:53 PM	Brian McClendon	Anthony Levandowski; Brian McClendon			Pittsburgh	Calendar File	Calendar invitation for 11/16/2016 meeting at 5:30-6:00pm.
633	UBER00069330	11/8/2016	11:49 PM	Google Calendar [calendar-notification@google.com]	Anthony Levandowski			Pittsburgh	Calendar File	Calendar invitation for 11/16/2016 meeting at 5:30-6:00pm.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
634	UBER00069122	11/8/2016	11:49 PM	Brian McClendon	Anthony Levandowski; Brian McClendon			Pittsburgh	Calendar File	Calendar invitation for 11/16/2016 meeting at 5:30-6:00pm.
635	UBER00065213	11/8/2016		Travis Kalanick	Travis Kalanick; Austin Geidt; Emil Michael; Neil Stegall; Jeff Miller; Noah Zych; Raffi Krikorian; Matt Williams; Rajiv Krishnarao; Matt Sweeney; Guatam Gupta; Lior Ron; Andrew Beck; Anthony Levandowski; David Richter; Sherif Marakby; Eric Meyhofer; Matt Burton			1455 Market Street, San Francisco	Calendar File	Calendar invitation for 11/8/2016 "birdhouse" meeting at 9:00-10:00pm.
636		11/9/2016		[REDACTED]	Anthony Levandowski				Text Message	Text message regarding installing [REDACTED] LiDAR system on a vehicle.
637		11/9/2016		Anthony Levandowski	[REDACTED]				Text Message	Text message regarding installing [REDACTED] LiDAR system on a vehicle.
638	UBER00236465 UBER00236466 UBER00236467 UBER00236468 UBER00236469 UBER00236470 UBER00236471 UBER00236472	11/9/2016	2 46 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding laser.
639	UBER00006653	11/9/2016	4:25 PM	Sameer Kshirsagar	Anthony Levandowski; James Haslim	Eric Meyhofer	Sameer Kshirsagar		E-Mail	Email discussing [REDACTED] specification file and potential follow-up call with Anthony Levandowski.
640	UBER00236473 UBER00236474	11/9/2016	11 49 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding third party Luminar.
641		11/9/2016 or 11/10/2016		Anthony Levandowski	Jeremy Millard; Curtis Scott; and others			Pittsburgh	Presentation	Presentation regarding self-driving development.
642	UBER00236476 UBER00236477 UBER00236478 UBER00236479 UBER00236480 UBER00236481 UBER00236482 UBER00236483	11/10/2016	1 16 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding LiDAR.
643	UBER00076276	11/10/2016	11:53 PM	Anthony Levandowski	Eric Meyhofer				E-Mail	Email regarding laser configuration for export.
644	UBER00076548	11/10/2016		Anthony Levandowski	Matt Williams; Don Burnette; Noah Zych; Julie Viray; Raffi Krikorian; Lior Ron; Eric Meyhofer; Matt Sweeney; Austin Geidt				Document	Document regarding single NSD car and expansion strategy.
645	UBER00069120	11/10/2016	8:01 PM	Google Calendar [calendar-notification@google.com]	Anthony Levandowski			Pittsburgh	Calendar File	Declined calendar invitation for 11/16/2016 meeting at 5:30-6:00pm.
646	UBER00069121	11/10/2016	8:01 PM	Brian McClendon	Anthony Levandowski; Brian McClendon			Pittsburgh	Calendar File	Calendar invitation for 11/16/2016 meeting at 5:30-6:00pm.
647	UBER00301402 UBER00301403	11/11/2016	1 30 PM	Anthony Levandowski	Don Burnette; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding lasers.
648	UBER00076277	11/11/2016	3:37 PM	Anthony Levandowski	Eric Meyhofer				E-Mail	Email regarding laser configuration for export.
649	UBER00076534	11/11/2016		Amit Singhal	Anthony Levandowski				Powerpoint	Powerpoint regarding Uber Safe and autonomous vehicles.
650	UBER00086448	11/11/2016	9:11 AM	Anthony Levandowski	Eric Meyhofer; Sameer Kshirsagar; Anthony Levandowski				Text Message	Message regarding potential purchase related to LiDAR.
651	UBER00086449	11/11/2016	9:11 AM	Anthony Levandowski	Eric Meyhofer ; Sameer Kshirsagar; Anthony Levandowski				Text Message	Message regarding potential purchase related to LiDAR.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
652	UBER00076058	11/14/2016	7:42 PM	Anthony Levandowski	Nina Qi	Claire Delaunay; Eric Meyhofer; Raffi Krikorian			E-Mail	Email regarding LiDARs from third party [REDACTED]
653	UBER00076565	11/14/2016		Anthony Levandowski					Spreadsheet	Spreadsheet regarding metrics for evaluating SDU performance.
654		11/14/2016		Anthony Levandowski	Kevin Sherwood; Blair Blake; Jason Zwirkoski; Michael Maloney; Andrew McLachlan			737 Harrison Street, San Francisco	Meeting	Meeting regarding new hire orientation.
655	UBER00012045	11/14/2016	7:42 PM	Anthony Levandowski	Nina Qi	Claire Delaunay; Eric Meyhofer; Raffi Krikorian			E-Mail	Email regarding potential investment in [REDACTED] LiDAR.
656	UBER00012042	11/14/2016	7:50 PM	Nina Qi	Anthony Levandowski	Claire Delaunay; Eric Meyhofer; Raffi Krikorian			E-Mail	Email regarding third party [REDACTED] and LiDAR technology.
657	UBER00006663	11/14/2016	4:55 PM	Sameer Kshirsagar	Eric Meyhofer; Anthony Levandowski		Sameer Kshirsagar		E-Mail	Email discussing [REDACTED] LiDAR with Anthony Levandowski.
658	UBER00076783	11/14/2016		Anthony Levandowski	Eric Meyhofer			Pittsburgh	Meeting (notes)	Notes from 1/30/2017 one-on-one meeting with Anthony Levandowski.
659	UBER00076005	11/15/2016	5:46 AM	Anthony Levandowski	John Tobias; laser-dev [laser-dev@uber.com]				E-Mail	Email regarding news article for third party [REDACTED]
660	UBER00012074	11/15/2016	5:46 AM	Anthony Levandowski	John Tobias; laser-dev [laser-dev@uber.com]				E-Mail	Email regarding laser supplier.
661	UBER00012073	11/15/2016	5:01 PM	Dan Gruver	Anthony Levandowski	John Tobias; laser-dev [laser-dev@uber.com]			E-Mail	Email discussing article regarding LiDAR products with Anthony Levandowski.
662	UBER00076036	11/16/2016	2:02 AM	Anthony Levandowski	Anthony Levandowski; Drew Bagnell; Lior Ron; Matthew Prestopino				E-Mail	Email regarding news article for third party [REDACTED]
663	UBER00236495 UBER00236496 UBER00236497	11/16/2016	9:37 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding lasers.
664		11/16/2016	10:18 PM	Mason Feldman	Anthony Levandowski				Text Message	Message regarding scheduling of one-on-one meetings, Leads meetings, and LiDAR standup meetings.
665	UBER00076112	11/17/2016	2:14 AM	Google Calendar [calendar-notification@google.com]	Alicia Poling				Calendar File	Calendar invite for 11/18/2016 laser MVP and milestones meeting at 4:30pm.
666	UBER00076113	11/17/2016	2:14 AM	Anthony Levandowski	James Haslim; Scott Boehmke; Dan Gruver; Eric Meyhofer; Anthony Levandowski		SFO 737 Harrison - 2nd Upstairs Fishbowl (18) [uber.com_37303530323737373530@resource.calendar.google.com]		Calendar File	Calendar invite for 11/18/2016 laser MVP and milestones meeting at 4:30pm.
667	UBER00076193	11/17/2016	2:14 AM	Google Calendar [calendar-notification@google.com]	Scott Boehmke; Dan Gruver; James Haslim; Eric Meyhofer				Calendar File	Calendar invite for 11/18/2016 laser MVP and milestones meeting at 4:30pm.
668	UBER00076287	11/17/2016	2:14 AM	Google Calendar [calendar-notification@google.com]	Eric Meyhofer; James Haslim; Scott Boehmke; Dan Gruver				Calendar File	Calendar invite for 11/18/2016 laser MVP and milestones meeting at 4:30pm.
669	UBER00076400	11/17/2016	2:14 AM	Google Calendar [calendar-notification@google.com]	Dan Gruver; Eric Meyhofer; James Haslim; Scott Boehmke				E-Mail	Calendar invite for 11/18/2016 laser MVP and milestones meeting at 4:30pm.
670	UBER00076401	11/17/2016	2:14 AM	Anthony Levandowski	Eric Meyhofer; James Haslim; Scott Boehmke; Anthony Levandowski; Dan Gruver		SFO 737 Harrison - 2nd Upstairs Fishbowl (18) [uber.com_37303530323737373530@resource.calendar.google.com]		Calendar File	Calendar invite for 11/18/2016 laser MVP and milestones meeting at 4:30pm.
671	UBER00076011	11/17/2016	2:14 AM	Google Calendar [calendar-notification@google.com]	James Haslim; Dan Gruver; Eric Meyhofer; Scott Boehmke				E-Mail	Calendar invite for 11/18/2016 laser MVP and milestones meeting at 4:30pm.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
672	UBER00076012	11/17/2016	2:14 AM	Anthony Levandowski	Dan Gruver; Eric Meyhofer; James Haslim; Anthony Levandowski; Scott Boehmke		SFO 737 Harrison - 2nd Upstairs Fishbowl (18) [uber.com_373035303237373530@resource.calendar.google.com]		Calendar File	Calendar invite for 11/18/2016 laser MVP and milestones meeting at 4:30pm.
673	UBER00076200	11/17/2016	2:28 AM	Google Calendar [calendar-notification@google.com]	Scott Boehmke; Dan Gruver; James Haslim; Eric Meyhofer	Euan Guttridge			E-Mail	Calendar invite for 11/18/2016 laser MVP and milestones meeting at 4:30pm.
674	UBER00076428	11/18/2016		Anthony Levandowski	Anthony Levandowski; Scott Boehmke; Dan Gruver; Eric Meyhofer; James Haslim	Euan Guttridge	PIT 50 33rd St - 02nd Clark Curve (3) [uber.com_5049543530333372645374326e6433436c61726b43757276652d383737323534@resource.calendar.google.com]		Calendar File	Calendar invitation for 11/18/16 Laser meeting at 1:30pm.
675	UBER00065471	11/18/2016	6:28 AM	Travis Kalanick	Anthony Levandowski				Email	Email regarding research on NPS.
676		11/18/2016	9:15 AM	Anthony Levandowski	James Haslim				Text Messages	Text messages from Anthony Levandowski regarding 11/18/16 [REDACTED] phone call.
677		11/18/2016		[REDACTED]	Anthony Levandowski				Text Message	Text message regarding inquiry about considering [REDACTED] technology.
678	UBER00065214	11/19/2016		Travis Kalanick	Travis Kalanick; Austin Geidt; Lior Ron; David Richter; Curtis Scott; Anthony Levandowski; Matt Burton; Matt Williams; Noah Zych; Eric Meyhofer			1455 Market Street, San Francisco	Calendar File	Calendar invitation for 11/19/2016 "birdhouse" meeting at 1:00-3:00am.
679	UBER00065470	11/19/2016	11:47 PM	Travis Kalanick	Anthony Levandowski				Email	Email regarding Tesla self-driving vehicle.
680	UBER00076114	11/21/2016	3:34 AM	Anthony Levandowski	Brian Cullinane; Matt Williams; Raffi Krikorian	Austin Geidt; Matt Sweeney			E-Mail; Meeting (notes)	Email regarding notes from 11/18/2016 meeting.
681	UBER00076115	11/21/2016	7:54 AM	Anthony Levandowski	Brian Cullinane; Matt Williams; Raffi Krikorian	Austin Geidt; Matt Sweeney			E-Mail	Email regarding notes from 11/18/2016 meeting.
682	UBER00012389	11/21/2016	4:12 AM	Brian Cullinane	Anthony Levandowski; Matt Williams; Raffi Krikorian	Austin Geidt; Matt Sweeney			E-Mail	Email regarding single driver plan and review by Anthony Levandowski.
683	UBER00012391	11/21/2016	3:30 AM	Raffi Krikorian	Anthony Levandowski; Brian Cullinane; Matt Williams	Austin Geidt; Matt Sweeney			E-Mail	Email regarding single driver plan and review by Anthony Levandowski.
684	UBER00012385	11/23/2016	1:22 AM	Brian Cullinane	Anthony Levandowski; Matt Williams; Raffi Krikorian	Austin Geidt; Matt Sweeney; Lior Ron			E-Mail	Email regarding single driver plan and review by Anthony Levandowski.
685		11/23/2016		[REDACTED]	Anthony Levandowski				Text Message	Text message regarding installing [REDACTED] LiDAR system on a vehicle.
686	UBER00076715	11/26/2016	7:21 AM	Anthony Levandowski	Nina Qi				Calendar File	Accepted calendar invitation to hold time for 11/28/2016 [REDACTED] meeting.
687	UBER00076790	11/28/2016	9:54 AM	Nina Qi	Mason Feldman	Anthony Levandowski; Cameron Poetzsch; Eric Meyhofer; James Haslim			E-Mail	Email regarding 11/28/2016 phone call with third party [REDACTED].
688	UBER00076486	11/29/2016		Anthony Levandowski	Matt Williams; Mason Feldman; Euan Guttridge; Raffi Krikorian; Lior Ron; Eric Meyhofer; David Richter; Matt Sweeney; Sherif Marakby; Neil Stegall; Jeff Miller; robot-direct-reports@uber.com				Meeting (notes)	Document regarding agenda and notes from "birdhouse" meetings, including 11/29/2016 meeting; 1/10/2017 meeting; 1/24/2017 meeting; and 2/1/2017 meeting.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
689	UBER00065215	11/29/2016		Travis Kalanick	Travis Kalanick; Matt Sweeney; Emil Michael; Austin Geidt; Gautam Gupta; Anthony Levandowski; Neil Stegall; Rajiv Krishnarao; Raffi Krikorian; Eric Meyhofer; Matt Williams; Lior Ron; Sherif Marakby; Matt Burton; David Richter; Jeff Miller; Noah Zych			1455 Market Street, San Francisco	Calendar File	Calendar invitation for 11/29/2016 "birdhouse" meeting at 10:45pm-12:30am.
690	UBER00076792	11/29/2016		Anthony Levandowski	Lisa Weitekamp			Otto office, Palo Alto	Meeting	Meeting regarding AVMaps. No specific recollection regarding whether Anthony Levandowski attended in person or by Zoom.
691	UBER00065153	11/30/2016		Travis Kalanick	Travis Kalanick; Jeff Miller; Anthony Levandowski; Chris Lapointe; Guatam Gupta; Prabir Adarkar			1455 Market Street, San Francisco	Calendar File	Calendar invitation for 11/30/2016 ATG planning meeting at 11:00pm.
692		11/30/2016		[REDACTED]	Anthony Levandowski				Text Message	Text message regarding initial units of [REDACTED] LiDAR systems for Uber.
693		11/30/2016		[REDACTED]	Anthony Levandowski				Text Message	Text message regarding paperwork for pre-order of [REDACTED] LiDAR systems.
694	UBER00076348	12/5/2016	6:20 PM	Anthony Levandowski	David Richter				E-Mail	Email regarding LiDAR system from third party [REDACTED]
695	UBER00076344	12/5/2016	6:24 PM	Anthony Levandowski	David Richter				E-Mail	Email regarding LiDAR system from third party [REDACTED]
696	UBER00076690	12/5/2016	6:25 PM	Anthony Levandowski	Anthony Levandowski				E-Mail	Email regarding project and 11/10/2016 meeting with third party [REDACTED] representative Austin Russell.
697	UBER00076691	12/5/2016	6:25 PM						Attachment	Attachment regarding project with third party [REDACTED]
698	UBER00076684	12/5/2016	6:25 PM	Anthony Levandowski	David Richter				E-Mail	Email regarding project and 11/10/2016 meeting with third party [REDACTED] representative Austin Russell.
699	UBER00076685	12/5/2016	6:25 PM						Attachment	Attachment regarding project with third party [REDACTED]
700	UBER00076716	12/5/2016	11:27 PM	Anthony Levandowski	Nina Qi; Eric Meyhofer; James Haslim				Calendar File	Calendar invitation for 12/7/2016 [REDACTED] meeting at 12:30-1:00pm.
701	UBER00012127	12/5/2016	6:30 PM	David Richter	Anthony Levandowski; Dan Gruver				E-Mail	Email regarding discussions with Anthony regarding LiDAR products with [REDACTED]
702	UBER00064188	12/6/2016	9:50 PM	Google Calendar	Travis Kalanick				E-Mail	Email discussing meeting with Anthony Levandowski referencing AV Maps Leads.
703	UBER00012125	12/6/2016	1:37 AM	David Richter	Austin Russell; Jason Eichenholz	Anthony Levandowski; Dan Gruver; Josh Andrews; Brendan Mulligan; James Haslim; Scott Boehmke			E-Mail	Email regarding discussions with Anthony to accelerate LiDAR products with [REDACTED]
704	UBER00012134	12/6/2016	3:57 AM	Josh Andrews	Dan Gruver	Anthony Levandowski; David Richter; Scott Boehmke; James Haslim; Brendan Mulligan			E-Mail	Email regarding discussions with Anthony to accelerate LiDAR products with [REDACTED]
705	UBER00012137	12/6/2016	4:49 AM	Josh Andrews	Anthony Levandowski	Dan Gruver; David Richter; Scott Boehmke; James Haslim; Brendan Mulligan			E-Mail	Email regarding discussions with Anthony regarding LiDAR products with [REDACTED]
706	UBER00076681	12/7/2016	7:25 PM	Google Calendar [calendar-notification@google.com]	David Richter			1455 Market Street, San Francisco	Calendar File	Accepted calendar invitation for 12/7/16 meeting with third party [REDACTED] representatives Austin, Jason, and Scott from 6:00-7:00pm.
707	UBER00076683	12/7/2016	7:25 PM	Google Calendar [calendar-notification@google.com]	David Richter			1455 Market Street, San Francisco	Calendar File	Calendar invitation for 12/7/16 meeting with third party [REDACTED] representatives Austin, Jason, and Scott from 6:00-7:00pm.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
708	UBER00076801	12/9/2016		Nina Qi	Anthony Levandowski				Meeting (notes)	Notes from 12/9/2016 meeting regarding [REDACTED]
709	UBER00065466	12/10/2016	4:12 AM	Travis Kalanick	Anthony Levandowski; Matt Williams	robot-direct-reports [robot-direct-reports@uber.com]			Email	Email regarding AGT 2017 plan.
710	UBER00065469	12/10/2016	12:27 AM	Travis Kalanick	Anthony Levandowski				Email	Email including Google doc link.
711	UBER00236543	12/11/2016	6:00 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Message	Text message with Anthony Levandowski regarding LiDAR.
712	UBER00076360	12/12/2016	12:06 AM	Google Calendar [calendar-notification@google.com]	Dan Gruver				Calendar File	Declined calendar invite for weekly Lidar Monday standup meeting at 11:00am.
713	UBER00076222	12/13/2016	4:09 PM	Anthony Levandowski	Brian McClendon; Eric Meyhofer; Justin Ho; Sherif Marakby				E-Mail	Email regarding news article for third party Velodyne.
714	UBER00064196	12/14/2016	3:32 PM	Anthony Levandowski	Travis Kalanick				E-Mail	Email regarding next steps for Valet project.
715		12/15/2016	2:17 PM	James Haslim	Anthony Levandowski				Text Messages	Text messages regarding James Haslim's 12/15/2016 in-person meeting with [REDACTED] Anthony Levandowski unable to attend.
716	UBER00076065	12/16/2016	7:54 PM	Google Calendar [calendar-notification@google.com]	Adam Kenvarg				Calendar File	Declined calendar invite for 12/16/16 meeting regarding LiDAR update.
717	UBER00076066	12/16/2016	7:54 PM	Anthony Levandowski	Adam Kenvarg; Anthony Levandowski				Calendar File	Accepted calendar invite for 12/16/16 weekly meeting regarding LiDAR update at 12:00pm.
718		12/16/2016	12:16 PM	Mason Feldman	Anthony Levandowski				Text Message	Message regarding adjustment of schedule, including LiDAR lunch at 12:00pm.
719	UBER00012377	12/19/2016	6:23 AM	Austin Geidt	Anthony Levandowski	Anthony Levandowski; Lior Ron			E-Mail	Email regarding logging LiDAR with Anthony Levandowski.
720	UBER00086655	12/19/2016	8:06 PM	David Richter	[REDACTED]	[REDACTED] Brendan Mulligan; Josh Andrews; Dan Gruver; Anthony Levandowski; Ophir Samson			E-Mail	Email regarding Uber purchase order for [REDACTED] LiDAR systems.
721	UBER00012040	12/20/2016	11:29 PM	Nina Qi	James Haslim; Anthony Levandowski; Cameron Poetzsch				E-Mail	Email regarding third party [REDACTED] detector.
722	UBER00065164	12/21/2016		Anthony Levandowski	Anthony Levandowski; Euan Gutteridge; Sherif Marakby; Eric Meyhofer; Travis Kalanick			50 33rd Street, Pittsburgh	Calendar File	Calendar invitation for 12/21/2016 [REDACTED] meeting at 7:00-8:00pm.
723	UBER00076069	12/23/2016	2:21 AM	Google Calendar [calendar-notification@google.com]	Adam Kenvarg				Calendar File	Accepted calendar invite for 12/16/16 weekly meeting regarding LiDAR update at 12:00pm.
724	UBER00076070	12/23/2016	2:21 AM	Anthony Levandowski	Adam Kenvarg; Anthony Levandowski				Calendar File	Accepted calendar invite for 12/16/16 weekly meeting regarding LiDAR update at 12:00pm.
725	UBER00076067	12/23/2016	8:34 PM	Google Calendar [calendar-notification@google.com]	Adam Kenvarg				Calendar File	Declined calendar invitation for 1/6/17 weekly meeting regarding LiDAR update.
726	UBER00076068	12/23/2016	8:34 PM	Anthony Levandowski	Adam Kenvarg; Anthony Levandowski				Calendar File	Declined calendar invitation for 1/6/17 weekly meeting regarding LiDAR update.
727	UBER00012344	12/24/2016	4:06 AM	Carlos Vallespi-Gonzalez	Andrei Pokrovsky	Don Burnette; Anthony Levandowski; Sean Hyde; Andrew Gray; Jeff Kiske; Eric Meyhofer			E-Mail	Email discussing LiDAR issues with Anthony Levandowski.
728	UBER00012369	12/25/2016	11:55 PM	Andrei Pokrovsky	Carlos Vallespi-Gonzalez	Don Burnette; Anthony Levandowski; Sean Hyde; Andrew Gray; Jeff Kiske; Eric Meyhofer			E-Mail	Email discussing LiDAR issues with Anthony Levandowski.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
729		12/25/2016			Anthony Levandowski				Text Message	Text message regarding pre-order paperwork, status of production and delivery of [REDACTED] LiDAR systems for Uber.
730	UBER00012360	12/26/2016	8:53 PM	Sean Hyde	Andrei Pokrovsky; Carlos Vallespi-Gonzalez	Don Burnette; Anthony Levandowski; Andrew Gray; Jeff Kiske; Eric Meyhofer			E-Mail	Email discussing LiDAR issues with Anthony Levandowski.
731	UBER00076313	12/30/2016	3:52 AM	Anthony Levandowski	Jeff Miller	Ophir Samson; Lior Ron; Andrew Beck; Eric Meyhofer; David Richter			E-Mail	Email regarding potential meeting with third party [REDACTED] at CES.
732	UBER00076316	12/30/2016	7:17 AM	Anthony Levandowski	Jeff Miller	Andrew Beck; David Richter; Eric Meyhofer; Lior Ron; Ophir Samson			E-Mail	Email regarding potential meeting with third party [REDACTED] at CES.
733	UBER00076063	12/30/2016	7:03 PM	Google Calendar [calendar-notification@google.com]	Adam Kenvarg				Calendar File	Declined calendar invite for 12/30/16 meeting regarding LiDAR update at 12:00pm.
734	UBER00076064	12/30/2016	7:03 PM	Anthony Levandowski	Adam Kenvarg; Anthony Levandowski				Calendar File	Calendar invite for 12/30/16 meeting regarding LiDAR update at 12:00pm.
735	UBER00076678	12/30/2016	6:41 AM	Anthony Levandowski	[REDACTED] Dan Gruver				E-Mail	Email regarding purchase order for third party [REDACTED]
736	UBER00076446	1/2/2017		Anthony Levandowski	Nancy Sun; Euan Guttridge; Noah Zych; Julie Viray; Matt Sweeney; Paw Andersen; Sherif Marakby; Adi Ofer; Brian Cullinane; Shalin Mantri; David Stager; David Meall; Jeff Miller; Carl Wellington; Sanjeev Kumar; robot-direct-reports@uber.com				Meeting (notes)	Document regarding agenda and notes from ATG leads bullpen weekly meetings, including 1/3/2017 meeting; 1/10/2017 meeting; 1/17/2017 meeting; 1/25/2017 meeting; 1/30/2017 meeting; 2/1/2017 meeting; 2/7/2017 meeting; 2/14/2017 meeting; 2/21/2017 meeting; 2/28/2017 meeting; 3/7/2017 meeting; 3/14/2017 meeting; 3/21/2017 meeting; and 3/28/2017 meeting.
737	UBER00086674	1/3/2017			[REDACTED]	Anthony Levandowski			E-Mail	Email regarding Uber purchase order for [REDACTED] LiDAR systems.
738	UBER00076792	1/4/2017		Anthony Levandowski	Lisa Weitekamp			50 33rd Street, Pittsburgh	Meeting	Meeting regarding AVMaps. No specific recollection regarding whether Anthony Levandowski attended in person or by Zoom.
739	UBER00076369	1/5/2017	3:49 PM	Google Calendar [calendar-notification@google.com]	Dan Gruver				Calendar File	Declined calendar invite for 1/5/17 Fuji test matrix review meeting at 2pm.
740	UBER00076430	1/5/2017		Dan Gruver	Dan Gruver; UATG Lidar Development [laser-dev@uber.com]; Anthony Levandowski; Steven Wu		SFO 737 Harrison - 02nd Upstairs Fishbowl (18) [uber.com_373035303237373530@resource.calendar.google.com]	737 Harrison Street, San Francisco	Calendar File	Calendar invitation for 1/5/2017 Fuji test matrix review at 10:00-10:55pm.
741	UBER000301468 UBER000301469 UBER000301470 UBER000301471 UBER000301472 UBER000301473 UBER000301474 UBER000301475	1/5/2017	7:20 AM	Anthony Levandowski	Don Burnette; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding LiDAR news article and vendors.
742	UBER00087037 UBER00087039 UBER00087040	1/5/2017	2:01 PM	Anthony Levandowski	Max Levandowski				Text Messages	Text messages with photos and discussion of LiDAR.
743	UBER00087050 UBER00087051	1/6/2017	11:34 PM	Anthony Levandowski	Max Levandowski				Text Message	Text message regarding [REDACTED] LiDAR.
744	UBER00076185	1/8/2017	5:47 AM	Anthony Levandowski	Scott Boehmke				E-Mail	Email regarding Ladar technology industry tracking.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
745	UBER00076528	1/8/2017		Lior Ron	Anthony Levandowski				Document	Document regarding lidar technology watch and vendors.
746	UBER00098308	1/9/2017		Anthony Levandowski	atc-internal@uberatc.com; fulltime@otc.to				E-Mail	Email regarding laser testing.
747	UBER00065218	1/10/2017		Travis Kalanick	Travis Kalanick; Raffi Krikorian; Matt Burton; Eric Meyhofer; Matt Williams; Gautam Gupta; Matt Sweeney; Emil Michael; Lior Ron; Sherif Marakby; Neil Stegall; Anthony Levandowski; Austin Geidt; Jeff Miller; Noah Zych; David Richter; Rachel Whetstone; Rajiv Krishnarao			1455 Market Street, San Francisco	Calendar File	Calendar invitation for 1/10/2017 "birdhouse" meeting at 10:30pm-12:30am.
748	UBER00012354	1/10/2017	9:11 PM	Jeff Schneider	Anthony Levandowski				E-Mail	Email discussing EndRun with Anthony Levandowski.
749	UBER00012357	1/10/2017	4:36 PM	Lior Ron	Anthony Levandowski				E-Mail	Email summarizing meeting with Anthony Levandowski regarding LiDAR and computers.
750		1/10/2017		Anthony Levandowski	Peter Melick; Josh Manela; Nemanja Djuric			50 33rd Street, Pittsburgh	Meeting	Meeting with Anthony Levandowski with EndRun engineers where LiDAR was mentioned tangentially.
751	UBER00301476 UBER00301477	1/10/2017	8:39 AM	Anthony Levandowski	Don Burnette; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding laser experience.
752		1/10/2017	8:41 AM	Anthony Levandowski	James Haslim				Text Messages	Text messages from Anthony Levandowski regarding spinning laser and point cloud.
753		1/10/2017	8:41 AM	Anthony Levandowski	James Haslim				Text Messages	Text messages from Anthony Levandowski regarding spinning laser and point cloud.
754	UBER00076263	1/11/2017	1:48 PM	Anthony Levandowski	Eric Meyhofer; Prashant Chouta	Sameer Kshirsagar			E-Mail	Email regarding LiDARs from third party [REDACTED]
755	UBER00076261	1/11/2017	2:20 PM	Anthony Levandowski	Sameer Kshirsagar	Eric Meyhofer; Prashant Chouta			E-Mail	Email regarding LiDARs from third party [REDACTED]
756	UBER00076280	1/11/2017	2:34 PM	Anthony Levandowski	Sameer Kshirsagar	Eric Meyhofer; Prashant Chouta			E-Mail	Email regarding LiDARs from third party [REDACTED]
757	UBER00012063	1/11/2017	2:34 PM	Anthony Levandowski	Sameer Kshirsagar	Eric Meyhofer; Prashant Chouta			E-Mail	Email regarding LiDARs from third party [REDACTED]
758	UBER00076261	1/11/2017	2:20 PM	Anthony Levandowski	Sameer Kshirsagar	Eric Meyhofer; Prashant Chouta			E-Mail	Email regarding LiDARs from third party [REDACTED]
759	UBER00076263	1/11/2017	1:48 PM	Anthony Levandowski	Eric Meyhofer	Sameer Kshirsagar; Prashant Chouta			E-Mail	Email regarding LiDARs from third party [REDACTED]
760	UBER00012071	1/11/2017	1:48 PM	Anthony Levandowski	Eric Meyhofer; Prashant Chouta	Sameer Kshirsagar			E-Mail	Email regarding potential LiDAR supplier [REDACTED]
761	UBER00012066	1/11/2017	2:31 PM	Sameer Kshirsagar	Anthony Levandowski	Eric Meyhofer; Prashant Chouta			E-Mail	Email discussing third party [REDACTED] LiDAR products with Anthony Levandowski.
762	UBER00006667	1/11/2017	1:57 PM	Sameer Kshirsagar	Eric Meyhofer	Prashant Chouta; Anthony Levandowski	Sameer Kshirsagar		E-Mail	Email discussing third party [REDACTED] LiDAR products with Anthony Levandowski.
763	UBER00012342	1/11/2017	2:08 PM	David Stager	Anthony Levandowski	Eric Meyhofer			E-Mail	Email discussing Pittsburgh fleet with Anthony Levandowski.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
764	UBER00076783	1/11/2017		Anthony Levandowski	Eric Meyhofer			Pittsburgh	Meeting (notes)	Notes from 1/30/2017 one-on-one meeting with Anthony Levandowski.
765	UBER00076522	1/12/2017		James Haslim	Anthony Levandowski				Powerpoint	Powerpoint regarding UATG LiDAR Q4 2016 OKRs.
766	UBER00076061	1/13/2017	6:31 AM	Google Calendar [calendar-notification@google.com]	Adam Kenvarg				Calendar File	Declined calendar invite for 1/13/17 meeting regarding LiDAR update at 12pm.
767	UBER00076062	1/13/2017	6:31 AM	Anthony Levandowski	Adam Kenvarg; Anthony Levandowski				Calendar File	Calendar invite for 1/13/17 meeting regarding LiDAR update at 12pm.
768	UBER00012620	1/13/2017	7:52 AM	Andrei Pokrovsky	Sean Hyde	Carlos Vallespi-Gonzalez; Don Burnette; Anthony Levandowski; Andrew Gray; Jeff Kiske; Eric Meyhofer			E-Mail	Email discussing hardware upgrades for [REDACTED] laser with Anthony Levandowski.
769	UBER00012633	1/13/2017	12:59 PM	Sean Hyde	Andrei Pokrovsky	Carlos Vallespi-Gonzalez; Don Burnette; Anthony Levandowski; Andrew Gray; Jeff Kiske; Eric Meyhofer			E-Mail	Email discussing hardware upgrades for [REDACTED] laser with Anthony Levandowski.
770		1/16/2017	12:21 PM	Anthony Levandowski	James Haslim				Text Message	Text message from Anthony Levandowski regarding point of contact for laser updates.
771	UBER00076783	1/16/2017		Anthony Levandowski	Eric Meyhofer			Pittsburgh	Meeting (notes)	Notes from 1/30/2017 one-on-one meeting with Anthony Levandowski.
772	UBER00076117	1/17/2017	8:31 PM	Anthony Levandowski	David Stager	John Bares; Carl Wellington; Raffi Krikorian; Euan Guttridge; Brian Zajac; Eric Meyhofer; Matt Williams			E-Mail	Email regarding laser type and coverage.
773	UBER00076431	1/17/2017		Daniel Ratner	Dan Ratner; UATG Lidar Development [laser-dev@ot.to]; Anthony Levandowski			737 Harrison Street, San Francisco	Calendar File	Calendar invitation for 1/17/2017 visit by third party [REDACTED] representative [REDACTED] at 5:30-7:00pm.
774	UBER00012481	1/17/2017	8:39 PM	Brian Zajac	Anthony Levandowski; David Stager	Carl Wellington; Eric Meyhofer; Euan Guttridge; John Bares; Matt Williams; Raffi Krikorian			E-Mail	Email discussing [REDACTED] laser with Anthony Levandowski.
775		1/17/2017	3:07 AM	James Haslim	Anthony Levandowski				Text Message	Text message regarding point of contact for laser updates.
776	UBER00076139	1/18/2017	4:50 AM	Anthony Levandowski	Andrei Pokrovsky	Sean Hyde; Carlos Vallespi-Gonzalez; Don Burnette; Andrew Gray; Jeff Kiske; Eric Meyhofer			E-Mail	Email regarding GPU and technology for testing.
777	UBER00076320	1/18/2017	7:52 AM	Anthony Levandowski	Travis Kalanick; Amit Singhal				E-Mail	Email regarding ATG status and personal status.
778	UBER00235456 UBER00235457 UBER00235458 UBER00235459	1/18/2017	9 25 PM	Jeff Miller	Eric Meyhofer; Jeff Miller; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding third party Caterpillar LiDARs.
779		1/18/2017		[REDACTED]	Anthony Levandowski				Text Message	Text message regarding license agreement for [REDACTED] LiDAR systems.
780	UBER00076127	1/19/2017	9:09 AM	Anthony Levandowski	Andrei Pokrovsky	Sean Hyde; Carlos Vallespi-Gonzalez; Don Burnette; Andrew Gray; Jeff Kiske; Eric Meyhofer			E-Mail	Email regarding GPU and technology for testing.
781	UBER00076340	1/19/2017	10:13 AM	Anthony Levandowski	Jessie Smith				E-Mail	Email regarding simulation weekly update.
782	UBER00076208 UBER00076767	1/19/2017	10:44 AM	Anthony Levandowski	Raffi Krikorian; David Stager	Eric Meyhofer; Don Burnette			E-Mail	Email regarding third party [REDACTED] laser.
783	UBER00012309	1/19/2017	1:48 PM	Somchaya Liemhetcharat	Jessie Smith	Anthony Levandowski; Peter Melick			E-Mail	Email discussing LiDAR issues with Anthony Levandowski.
784	UBER00012314	1/19/2017	1:29 PM	Jessie Smith	Anthony Levandowski	Peter Melick; Somchaya Liemhetcharat			E-Mail	Email discussing LiDAR issues with Anthony Levandowski.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
785	UBER00012318	1/19/2017	12:10 PM	David Stager	Raffi Krikorian	Anthony Levandowski			E-Mail	Email discussing LiDAR issues with Anthony Levandowski.
786	UBER00012324	1/19/2017	11:01 AM	Raffi Krikorian	Anthony Levandowski; David Stager				E-Mail	Email discussing LiDAR issues with Anthony Levandowski.
787	UBER00012500	1/19/2017	7:14 AM	Andrei Pokrovsky	Anthony Levandowski	Sean Hyde; Carlos Vallespi-Gonzalez; Don Burnette; Andrew Gray; Jeff Kiske; Eric Meyhofer			E-Mail	Email discussing hardware upgrades for [REDACTED] laser with Anthony Levandowski.
788	UBER00236554	1/19/2017	6:52 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Message	Text message with Anthony Levandowski regarding laser sensor.
789	UBER00012532	1/19/2017	9:36 PM	Andrei Pokrovsky	Anthony Levandowski	Sean Hyde; Carlos Vallespi-Gonzalez; Don Burnette; Andrew Gray; Jeff Kiske; Eric Meyhofer			E-Mail	Email discussing hardware upgrades for [REDACTED] laser with Anthony Levandowski.
790		1/19/2017		Anthony Levandowski	[REDACTED]				Text Message	Text message regarding shipping location for [REDACTED] LiDAR system.
791	UBER00012548	1/20/2017	12:24 AM	Andrei Pokrovsky	Anthony Levandowski	Sean Hyde; Carlos Vallespi-Gonzalez; Don Burnette; Andrew Gray; Jeff Kiske; Eric Meyhofer			E-Mail	Email discussing hardware upgrades for [REDACTED] laser with Anthony Levandowski.
792	UBER00012565	1/20/2017	10:52 PM	Andrei Pokrovsky	Anthony Levandowski	Sean Hyde; Carlos Vallespi-Gonzalez; Don Burnette; Andrew Gray; Jeff Kiske; Eric Meyhofer			E-Mail	Email discussing hardware upgrades for [REDACTED] laser with Anthony Levandowski.
793	UBER00012582	1/20/2017	11:59 PM	Sean Hyde	Andrei Pokrovsky; Anthony Levandowski	Carlos Vallespi-Gonzalez; Don Burnette; Andrew Gray; Jeff Kiske; Eric Meyhofer; Carl Wellington			E-Mail	Email discussing hardware upgrades for [REDACTED] laser with Anthony Levandowski.
794		1/20/2017		[REDACTED]	Anthony Levandowski				Text Message	Text message regarding shipping location for [REDACTED] LiDAR system.
795		1/20/2017		[REDACTED]	Anthony Levandowski				Text Message	Text message regarding setting for [REDACTED] LiDAR system for truck or car.
796	UBER00012600	1/21/2017	1:28 AM	Eric Meyhofer	Sean Hyde	Andrei Pokrovsky; Anthony Levandowski; Carlos Vallespi-Gonzalez; Don Burnette; Andrew Gray; Jeff Kiske; Carl Wellington			E-Mail	Email discussing hardware upgrades for [REDACTED] laser with Anthony Levandowski.
797		1/21/2017		[REDACTED]	Anthony Levandowski				Text Message	Text message regarding training for operation of [REDACTED] LiDAR system.
798		1/21/2017		[REDACTED]	Anthony Levandowski				Text Message	Text message regarding factory settings for [REDACTED] LiDAR system.
799	UBER00076221	1/22/2017	7:39 AM	Anthony Levandowski	Don Burnette; Raffi Krikorian; David Stager				E-Mail	Email regarding image output and generation.
800	UBER00076106	1/22/2017	8:04 AM	Anthony Levandowski	David Stager	Eric Meyhofer; Chris Peplin; Wes Doonan			E-Mail	Email regarding laser installation.
801	UBER00076105	1/22/2017	8:04 AM	Anthony Levandowski	David Stager; Brian Zajac	Eric Meyhofer; Chris Peplin; Wes Doonan			E-Mail	Email regarding laser installation.
802	UBER00076109	1/22/2017	8:33 AM	Anthony Levandowski	David Stager; Brian Zajac; Scott Boehmke	Eric Meyhofer; Chris Peplin; Wes Doonan			E-Mail	Email regarding laser installation.
803	UBER00076107	1/22/2017	8:47 PM	Anthony Levandowski	David Stager; Scott Boehmke	Brian Zajac; Eric Meyhofer; Raffi Krikorian; Wes Doonan; Chris Peplin			E-Mail	Email regarding laser installation.
804	UBER00086668	1/22/2017		[REDACTED]	Anthony Levandowski				E-Mail	Email regarding end user license agreement for [REDACTED] LiDAR system.
805	UBER00076713	1/23/2017	7:30 AM	Anthony Levandowski	Nina Qi	Eric Meyhofer; James Haslim; Scott Boehmke; Cameron Poetzsch			E-Mail	Email regarding third party [REDACTED] detector.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
806	UBER00076495	1/23/2017		Craig Quiter	Anthony Levandowski				Powerpoint	Powerpoint regarding DeepDrive.
807	UBER00012306	1/23/2017	11:16 PM	Sabbir Rangwala	James Haslim	Anthony Levandowski			E-Mail	Email regarding Anthony Levandowski's meeting with Princeton Lightwave to view LiDAR demo.
808		1/23/2017		[REDACTED]	Anthony Levandowski				Text Message	Text message regarding training for operation of [REDACTED] LiDAR system.
809	UBER00236555 UBER00236556 UBER00236557 UBER00236558 UBER00236559	1/24/2017	12 31 AM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding lenses and attaching lens video.
810	UBER00076346	1/24/2017	7:27 AM	Anthony Levandowski	atc-internal@uberatc.com; fulltime@ot.to				E-Mail	Email regarding laser developments.
811	UBER00076004	1/24/2017	7:30 AM	Anthony Levandowski	Nina Qi	Eric Meyhofer; James Haslim; Scott Boehmke; Cameron Poetzsch			E-Mail	Email regarding third party Princeton Lightwave detector.
812	UBER00076089	1/24/2017	2:01 PM	Anthony Levandowski	Stephen Lesh	Eric Meyhofer; Sherif Marakby			E-Mail	Email regarding project development, including laser classification points.
813	UBER00076198	1/24/2017	2:02 PM	Anthony Levandowski	Euan Guttridge				E-Mail	Email regarding project development, including laser classification points.
814	UBER00076223	1/24/2017	2:02 PM	Anthony Levandowski	Sherif Marakby				E-Mail	Email regarding project development, including laser classification points.
815	UBER00076338	1/24/2017	2:03 PM	Anthony Levandowski	Noah Zych				E-Mail	Email regarding project development, including laser classification points.
816	UBER00076336	1/24/2017	2:04 PM	Anthony Levandowski	Cody Berdinis				E-Mail	Email regarding project development, including laser classification points.
817	UBER00076432	1/24/2017		Raffi Krikorian	Raffi Krikorian; David Stager; Anthony Levandowski; Don Burnette; Julie Viray; Wes Doonan			50 33rd Street, Pittsburgh	Calendar File	Calendar invitation for 1/24/2017 meeting regarding Core Autonomy and Onboard Leads Calibrations at 9:00-9:30pm.
818	UBER00076433	1/24/2017		Raffi Krikorian	Raffi Krikorian; Julie Destefano; Wes Doonan; Tony Stentz; Julie Viray; Dan Tascione; David Stager; Anthony Levandowski; Carl Wellington; Jeff Schneider; Don Burnette			50 33rd Street, Pittsburgh	Calendar File	Calendar invitation for 1/24/2017 meeting regarding Core Autonomy and Onboard and End Run Managers Calibrations at 8:30-9:00pm.
819	UBER00076434	1/24/2017		Raffi Krikorian	Rakki Krikorian; Julie Destefano; Anthony Levandowski; Bryan Nagy; David Stager; Wes Doonan; Julie Viray; Dan Tascione; Diana Yanakiev; Jeff Schneider; Tony Stentz; Jur van den Berg; Carl Wellington; Marcial Hernandez				Calendar File	Calendar invitation for 1/24/2017 meeting regarding Autonomy Calibrations at 7:30-8:30pm.
820	UBER00065219	1/24/2017		Travis Kalanick	Travis Kalanick; Jeff Miller; Neil Stegall; Guatam Gupta; Sherif Marakby; Matt Burton; Matt Sweeney; Noah Zych; Austin Geidt; Eric Meyhofer; Lior Ron; Raffi Krikorian; Anthony Levandowski; Emil Micahel; Rajiv Krishnarao; Matt Williams; David Richter			1455 Market Street, San Francisco	Calendar File	Calendar invitation for 1/24/2017 "birdhouse" meeting at 10:30pm-12:30am.
821	UBER00076335	1/25/2017	6:04 AM	Anthony Levandowski	fulltime@ot.to; atc-internal@uberatc.com				E-Mail	Email regarding vehicle rides and laser from third party [REDACTED]

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
822	UBER00076201	1/25/2017	6:55 AM	Anthony Levandowski	Don Burnette				E-Mail	Email regarding project development, including laser classification points.
823	UBER00076257	1/25/2017	6:59 AM	Anthony Levandowski	Shari Doherty				E-Mail	Email regarding vehicle rides and laser from third party [REDACTED]
824	UBER00076204	1/25/2017	7:08 AM	Anthony Levandowski	Don Burnette				E-Mail	Email regarding project development, including laser classification points.
825		1/25/2017		Anthony Levandowski	Chris Peplin; Scott Boehmke; Dan Tascione			50 33rd Street, Pittsburgh	Meeting	Meeting in parking lot to watch demonstration of [REDACTED] laser.
826	UBER00076444	1/25/2017		Craig Quiter	Anthony Levandowski				Document	Document regarding GTA V versus KITT.
827	UBER00087021 UBER00087022 UBER00087023 UBER00087024 UBER00087025	1/25/2017	3:10 PM	Anthony Levandowski	Max Levandowski				Text Messages	Text messages with photos and discussion of LiDAR parts and prototypes.
828	UBER00098314 UBER00098315 UBER00098316	1/25/2017	5:13 PM	Anthony Levandowski	Max Levandowski				Text Messages	Text messages with discussion of LiDAR parts and prototypes.
829	UBER00098334 UBER00098335	1/25/2017	7:34 PM	Max Levandowski	Anthony Levandowski				Text Message	Text messages with photos and discussion of LiDAR parts and prototypes.
830		1/25/2017	11:43 AM	Scott Boehmke	Anthony Levandowski			Pittsburgh	Text Messages	Text messages regarding visit from third party [REDACTED]
831		1/25/2017	1:55 PM	Scott Boehmke	Anthony Levandowski			Pittsburgh	Text Messages	Text messages regarding [REDACTED] laser running outside garage.
832	UBER00076378	1/26/2017	1:33 AM	Anthony Levandowski	Dan Gruver			Laser Hardware Area, 50 33rd St, Pittsburgh	Calendar File	Declined calendar invitation to weekly Lidar Monday Standup meeting.
833	UBER00076324	1/26/2017	2:02 AM	Anthony Levandowski	Dan Tascione; David Stager				E-Mail	Email regarding meeting with third party vendor [REDACTED]
834		1/26/2017	7:12 AM	Scott Boehmke	Anthony Levandowski				Text Message	Text message regarding scheduling of meeting with Anthony Levandowski.
835		1/26/2017	10:11 AM	Anthony Levandowski	Scott Boehmke				Text Messages	Text messages regarding vehicle data.
836	UBER00236565 UBER00236566	1/26/2017	4:51 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding laser.
837	UBER00076333	1/27/2017	12:33 AM	Anthony Levandowski	Amit Singhal				E-Mail	Email regarding project development, including laser classification points.
838	UBER00076332	1/27/2017	12:33 AM	Anthony Levandowski	Amit Singhal				E-Mail	Email regarding vehicle rides and laser from third party [REDACTED]
839	UBER00076255	1/27/2017	12:33 AM	Anthony Levandowski	Shari Doherty				E-Mail	Email regarding vehicle rides and laser from third party [REDACTED]
840	UBER00076258	1/27/2017	2:06 AM	Anthony Levandowski	Shari Doherty				E-Mail	Email regarding vehicle rides and laser from third party [REDACTED]
841	UBER00076077	1/27/2017	6:28 AM	Anthony Levandowski	Adam Kenvarg			Lunch Tables	Calendar File	Accepted calendar invitation for 1/27/2017 LiDAR update meeting at 12-12:30 pm.
842	UBER00076078	1/27/2017	6:28 AM	Anthony Levandowski	Adam Kenvarg; Anthony Levandowski				Calendar File	Calendar invitation for 1/27/2017 LiDAR update meeting at 12-12:30 pm.
843	UBER00076679	1/27/2017	6:28 AM	Google Calendar [calendar-notification@google.com]	David Richter				Calendar File	Accepted calendar invitation for 1/27/2017 phone call with David Richter from 1:00-3:00pm regarding third party [REDACTED]

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
844	UBER00076680	1/27/2017	6:28 AM	Google Calendar [calendar-notification@google.com]	David Richter				Calendar File	Calendar invitation for 1/27/2017 phone call with David Richter from 1:00-3:00pm regarding third party [REDACTED]
845	UBER00076687	1/27/2017	6:28 AM	Google Calendar [calendar-notification@google.com]	Jaime Anttonen				Calendar File	Accepted calendar invitation for 1/27/2017 phone call with David Richter from 1:00-3:00pm regarding third party [REDACTED]
846	UBER00076688	1/27/2017	6:28 AM	Google Calendar [calendar-notification@google.com]	Jaime Anttonen				Calendar File	Calendar invitation for 1/27/2017 phone call with David Richter from 1:00-3:00pm regarding third party [REDACTED]
847		1/27/2017	1:00 PM	Anthony Levandowski	David Richter; Brendan Mulligan				Phone Call	1/27/2017 phone call with Anthony Levandowski, David Richter, and Bendan Mulligan regarding third party [REDACTED]
848	UBER00076082	1/28/2017	7:24 PM	Anthony Levandowski	Bruno Hexsel; Michael Tocce; Sachin Patil; Zac Vawter				E-Mail	Email regarding LiDAR localization.
849	UBER00076081	1/28/2017	9:06 PM	Anthony Levandowski	Zac Vawter	Michael Tocce; Bruno Hexsel; Sachin Patil			E-Mail	Email regarding LiDAR localization.
850	UBER00012299	1/28/2017	9:06 PM	Anthony Levandowski	Zac Vawter	Michael Tocce; Bruno Hexsel; Sachin Patil			E-Mail	Email regarding rotation estimation related to LiDAR.
851	UBER00012302	1/28/2017	8:22 PM	Zac Vawter	Anthony Levandowski	Michael Tocce; Bruno Hexsel; Sachin Patil			E-Mail	Email regarding LiDAR issues with Anthony Levandowski.
852	UBER00012292	1/30/2017	11:32 PM	Michael Tocce	Bruno Hexsel	Sachin Patil; Anthony Levandowski; Zac Vawter			E-Mail	Email regarding LiDAR issues with Anthony Levandowski.
853	UBER00076783	1/30/2017		Anthony Levandowski	Eric Meyhofer			San Francisco	Meeting (notes)	Notes from 1/30/2017 one-on-one meeting with Anthony Levandowski.
854	UBER00076779	2/1/2017		Anthony Levandowski	Raffi Krikorian; Shalin Mantri; Anthony Levandowski; Drew Gray; Brian Bailey; David Stager; Claire Delaunay; Craig Quiter			1455 Market Street, San Francisco	Calendar File	Calendar invitation for 2/1/2017 simulation meeting at 9:00-10:00am.
855	UBER00076774	2/1/2017		Shalin Mantri					Meeting (notes)	Meeting notes for 2/1/2017 simulation meeting at 9:00-10:00am.
856	UBER00065220	2/1/2017		Travis Kalanick	Travis Kalanick; Josh Andrews; Neil Stegall; Matt Sweeney; Matt Williams; Austin Geidt; Emil Micahel; David Richter; Anthony Levandowski; Lior Ron; Jeff Miller; Matt Burton; Raffi Krikorian; Noah Zych; Eric Meyhofer; Guatam Gupta; Sherif Marakby; Rajiv Krishnarao			1455 Market Street, San Francisco	Calendar File	Calendar invitation for 2/1/2017 "birdhouse" meeting at 10:00pm.
857	UBER00098309	2/1/2017		Anthony Levandowski	Shalin Mantri				E-Mail	Email regarding simulation platform for software.
858	UBER00098336 UBER00098337 UBER00098338 UBER00098339	2/1/2017	9:41 AM	Anthony Levandowski	Max Levandowski				Text Messages	Text messages regarding meeting with Max Levandowski and [REDACTED].
859	UBER00086658	2/1/2017	9:40 PM	Brendan Mulligan	[REDACTED]	Josh Andrews; [REDACTED] [REDACTED] Anthony Levandowski; David Richter			E-Mail	Email regarding end user license agreement for [REDACTED] LiDAR system.
860	UBER00076780	2/2/2017		Shalin Mantri	Anthony Levandowski; David Stager; Claire Delaunay; Drew Gray; Chip DiBerardino; Brian Bailey; Raffi Krikorian; Lior Ron				Calendar File	Calendar invitation for 2/2/2017 simulation meeting.
861	UBER00087052	2/4/2017	9:12 PM	Anthony Levandowski	Max Levandowski				Text Messages	Text messages regarding RX PCB adapter and

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
862	UBER00076181	2/3/2017	2:11 AM	Anthony Levandowski	Eric Meyhofer; Scott Boehmke				E-Mail	Email regarding laser from third party [REDACTED]
863	UBER00076183	2/3/2017	2:30 AM	Anthony Levandowski	Eric Meyhofer; Scott Boehmke				E-Mail	Email regarding laser from third party [REDACTED]
864	UBER00076075	2/3/2017	6:25 AM	Google Calendar [calendar-notification@google.com]	Adam Kenvarg			Lunch Tables	Calendar File	Accepted calendar invitation for 2/3/2017 LiDAR update meeting at 12-12:30 pm.
865	UBER00076076	2/3/2017	6:25 AM	Anthony Levandowski	Adam Kenvarg; Anthony Levandowski				Calendar File	Calendar invitation for 2/3/2017 LiDAR update meeting at 12-12:30 pm.
866	UBER00076071	2/3/2017	9:53 PM	Google Calendar [calendar-notification@google.com]	Adam Kenvarg				E-Mail	Declined calendar invitation for 2/3/2017 LiDAR update meeting at 2-2:30 pm.
867	UBER00076072	2/3/2017	9:53 PM	Anthony Levandowski	Adam Kenvarg; Anthony Levandowski				Calendar File	Calendar invitation for 2/3/2017 LiDAR update meeting at 2-2:30 pm.
868	UBER00076216	2/4/2017	9:21 AM	Anthony Levandowski	David Stager	Don Burnette			E-Mail	Email regarding LiDAR sensor from third party
869	UBER00076327	2/4/2017	9:21 AM	Anthony Levandowski	David Stager	Don Burnette			E-Mail	Email regarding strategy for LiDAR sensors.
870	UBER00076218	2/4/2017	9:25 AM	Anthony Levandowski	David Stager	Don Burnette			E-Mail	Email regarding strategy for LiDAR sensors.
871	UBER00076122	2/4/2017	9:25 AM	Anthony Levandowski	Jeff Kiske				E-Mail	Email regarding strategy for LiDAR sensors.
872	UBER00076178	2/4/2017	9:53 AM	Anthony Levandowski	Scott Boehmke				E-Mail	Email regarding laser from third party [REDACTED]
873	UBER00076172	2/4/2017	9:55 AM	Anthony Levandowski	Scott Boehmke				E-Mail	Email regarding laser from third party [REDACTED]
874	UBER00012290	2/4/2017	9:21 AM	Anthony Levandowski	David Stager	Don Burnette			E-Mail	Email regarding LiDAR blindspots.
875	UBER00076288	2/5/2017	4:40 AM	Anthony Levandowski	Eric Meyhofer				E-Mail	Email regarding laser blooming.
876	UBER00076289	2/5/2017	4:40 AM						Attachment	Attachment regarding laser blooming.
877	UBER00076722	2/6/2017	4:00 PM	Anthony Levandowski	David Richter; Brendan Mulligan; Josh Andrews; [REDACTED]				Phone Call	2/6/2017 phone call with Anthony Levandowski, David Richter, Brendan Mulligan, and representatives from third party [REDACTED]
878	UBER00076728	2/6/2017	4:18 PM	Google Calendar [calendar-notification@google.com]	Josh Andrews				Calendar File	Calendar invitation for 2/6/2017 meeting at 4:00-5:00pm with representatives from third party [REDACTED].
879	UBER00076729	2/6/2017	4:18 PM	[REDACTED]	Josh Andrews				Calendar File	Calendar invitation for 2/6/2017 meeting at 4:00-5:00pm with representatives from third party [REDACTED].
880	UBER00076717	2/6/2017	4:20 PM	Google Calendar [calendar-notification@google.com]	Josh Andrews				Calendar File	Calendar invitation for 2/6/2017 meeting at 4:00-5:00pm with representatives from third party [REDACTED].
881	UBER00076718	2/6/2017	4:20 PM	David Richter	Josh Andrews; David Richter				Calendar File	Calendar invitation for 2/6/2017 meeting at 4:00-5:00pm with representatives from third party [REDACTED].
882	UBER00076719	2/6/2017	8:11 PM	Google Calendar [calendar-notification@google.com]	Josh Andrews				Calendar File	Accepted calendar invitation for 2/6/2017 meeting at 4:00-5:00pm with representatives from third party [REDACTED].
883	UBER00076721	2/6/2017	8:11 PM	Brendan Mulligan	Josh Andrews; Brendan Mulligan				Calendar File	Accepted calendar invitation for 2/6/2017 meeting at 4:00-5:00pm with representatives from third party [REDACTED].
884	UBER00076722	2/6/2017	9:20 PM	Google Calendar [calendar-notification@google.com]	Josh Andrews				Calendar File	Accepted calendar invitation for 2/6/2017 meeting at 4:00-5:00pm with representatives from third party [REDACTED].
885	UBER00076724	2/6/2017	9:20 PM	Anthony Levandowski	Josh Andrews; Anthony Levandowski				Calendar File	Accepted calendar invitation for 2/6/2017 meeting at 4:00-5:00pm with representatives from third party [REDACTED].
886		2/6/2017		Anthony Levandowski	Andrew Beck; Jeff Miller; Ophir Samson; Lior Ron; Eric Meyhofer			737 Harrison Street, San Francisco	Meeting	Meeting regarding ecosystem and platform for self-driving vehicles, including hardware standards.
887	UBER00076484	2/6/2017		Anthony Levandowski	Claire Delaunay; Mason Feldman; David Weikersdorfer; Raffi Krikorian; Ophir Samson; Jeff Miller				Document	Document regarding competition for open source AI using camera and laser based driving.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
888	UBER00076725	2/7/2017	12:09 AM	Google Calendar [calendar-notification@google.com]	Josh Andrews			737 Harrison Street, San Francisco	Calendar File	Accepted calendar invitation for 2/6/2017 meeting at 4:00-5:00pm with representatives from third party [REDACTED].
889	UBER00076727	2/7/2017	12:09 AM	SFO 737 Harrison - 01st Ohio (4) [uber.com_53464f3733374861727269736f6e73743173744f68696f2d3137353731@resource.calendar.google.com]	Josh Andrews	SFO 737 Harrison - 01st Ohio (4) [uber.com_53464f3733374861727269736f6e73743173744f68696f2d3137353731@resource.calendar.google.com]		737 Harrison Street, San Francisco	Calendar File	Accepted calendar invitation for 2/6/2017 meeting at 4:00-5:00pm with representatives from third party [REDACTED].
890	UBER00236570 UBER00236574 UBER00236575 UBER00236576 UBER00236577 UBER00236578	2/7/2017	11 24 AM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding laser.
891	UBER00076278	2/7/2017	5:50 PM	Anthony Levandowski	Eric Meyhofer				E-Mail	Email regarding strategy for LiDAR sensors.
892	UBER00012141	2/8/2017	7:00 PM	Dan Gruver	[REDACTED]	James Haslim; Anthony Levandowski; [REDACTED]			E-Mail	Email regarding future meeting between Anthony and [REDACTED] for LiDAR demonstration.
893	UBER00012147	2/8/2017	11:24 PM	Dan Gruver	[REDACTED]	[REDACTED] James Haslim; Anthony Levandowski; [REDACTED]			E-Mail	Email regarding future meeting between Anthony and [REDACTED] for LiDAR demonstration.
894	UBER00012161	2/8/2017	5:42 PM	[REDACTED]	James Haslim; Anthony Levandowski; Dan Gruver	[REDACTED]			E-Mail	Email regarding future meeting between Anthony and [REDACTED] for LiDAR demonstration.
895	UBER00012165	2/8/2017	10:21 PM	[REDACTED]	Dan Gruver; [REDACTED]	James Haslim; Anthony Levandowski; [REDACTED]			E-Mail	Email regarding future meeting between Anthony and [REDACTED] for LiDAR demonstration.
896	UBER00076710	2/9/2017	4:15 AM	Anthony Levandowski	David Richter				E-Mail	Email regarding LiDAR renders.
897	UBER00076711	2/9/2017	4:15 AM						Attachment	Attachment regarding LiDAR renders.
898	UBER00076712	2/9/2017	4:15 AM						Attachment	Attachment regarding LiDAR renders.
899	UBER00076283	2/9/2017	8:25 PM	Anthony Levandowski	Eric Meyhofer	David Stager			E-Mail	Email regarding [REDACTED] laser from third party
900	UBER00076171	2/9/2017	8:36 PM	Anthony Levandowski	Scott Boehmke				E-Mail	Email regarding lidar data.
901	UBER00076190	2/9/2017	8:36 PM	Anthony Levandowski	Scott Boehmke				E-Mail	Email regarding lidar data.
902	UBER00076180	2/9/2017	8:37 PM	Anthony Levandowski	Scott Boehmke				E-Mail	Email regarding lidar data.
903	UBER00076290	2/9/2017	8:45 PM	Anthony Levandowski	Julie Viray				E-Mail	Email regarding recruiting and job locations.
904	UBER00076037	2/9/2017	9:31 PM	Anthony Levandowski	Jim Baaden; Dave Meall; robot-direct-reports [robot-direct-reports@uber.com]; David Stager; Julie Viray				E-Mail	Email regarding recruiting and job locations.
905	UBER00076165	2/9/2017	9:34 PM	Anthony Levandowski	Scott Boehmke				E-Mail	Email regarding lidar data.
906	UBER00076197	2/9/2017	11:08 PM	Anthony Levandowski	Andrew Gray				E-Mail	Email regarding LiDAR cameras.
907	UBER00076493	2/9/2017		Anthony Levandowski	Julie Viray				Document	Document regarding recruiting and job locations.
908	UBER00065168	2/9/2017		Travis Kalanick	Travis Kalanick; David Richter; Jeremy Fine; Anthony Levandowski			1455 Market Street, San Francisco	Calendar File	Calendar invitation for 2/9/2017 ATG presentation review meeting at 6:30-7:00pm.
909	UBER00063737	2/9/2017	6:20 PM	Google Calendar	Travis Kalanick				E-Mail	Email regarding review of Anthony Levandowski ATG presentation.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
910	UBER00012154	2/9/2017	1:46 AM	[REDACTED]	Dan Gruver	[REDACTED]; James Haslim; Anthony Levandowski; [REDACTED]			E-Mail	Email regarding future meeting between Anthony and [REDACTED] for LiDAR demonstration.
911	UBER00012275	2/9/2017	9:18 PM	Scott Boehmke	Anthony Levandowski				E-Mail	Email regarding pictures of [REDACTED] scan.
912	UBER00012279	2/9/2017	8:37 PM	Scott Boehmke	Anthony Levandowski				E-Mail	Email regarding pictures of [REDACTED] scan.
913		2/9/2017	3:12 PM	Anthony Levandowski	Scott Boehmke				Text Messages	Text messages regarding [REDACTED] point cloud image for use in a presentation.
914	UBER00076047	2/10/2017	9:40 PM	Anthony Levandowski	Jim Baaden	Dave Meall; David Stager; Julie Viray; robot-direct-reports [robot-direct-reports@uber.com]			E-Mail	Email regarding recruiting and job locations.
915	UBER00076435	2/10/2017		David Stager	David Stager; Brian Zajac; Don Burnette; Eric Meyhofer; Alicia Poling; Tony Stentz; Carl Wellington; Tom Petroff; Marc Leach	Anthony Levandowski; Raffi Krikorian	uber.com_504954353033372645374326e643132564331393537427269746973684772616e64507269782d353231383130@resource.calendar.google.com		Calendar File	Calendar invitation for 2/10/2017 meeting regarding Design Review of sensor plan at 4:00-5:00pm.
916		2/10/2017		Anthony Levandowski	Carl Wellington; Brian Zajac; David Stager; Don Burnette; Eric Meyhofer; Marc Leach; Tom Petroff; Tony Stentz			50 33rd Street, Pittsburgh	Meeting	Meeting regarding design review and short range sensor plan. Anthony Levandowski joined the meeting over Zoom from San Francisco.
917	UBER00075861	2/10/2017	8:08 PM						Notes	Notes from 2/10/2017 staff meeting discussing Reflex.
918	UBER00012271	2/10/2017	5:09 PM	Brian Zajac	Alicia Poling; Anthony Levandowski; Anthony Stentz; Carl Wellington; David Stager; Don Burnette; Eric Meyhofer; Marc Leach; Raffi Krikorian; Tom Petroff				E-Mail	Email summarizing meeting regarding LiDAR with Anthony Levandowski.
919	UBER00012267	2/11/2017	2:30 PM	Eric Meyhofer	Brian Zajac	Alicia Poling; Anthony Levandowski; Anthony Stentz; Carl Wellington; David Stager; Don Burnette; Eric Meyhofer; Marc Leach; Raffi Krikorian; Tom Petroff			E-Mail	Email summarizing meeting regarding LiDAR with Anthony Levandowski and subsequent order cancellation.
920	UBER00012269	2/11/2017	12:42 PM	David Stager	athena@uberatc.com				E-Mail	Email summarizing meeting regarding LiDAR with Anthony Levandowski and future meeting regarding reflex.
921	UBER00301500	2/13/2017	1 22 PM	Anthony Levandowski	Don Burnette; Anthony Levandowski				Text Message	Text message with Anthony Levandowski regarding pucks.
922		2/13/2017	3:23 PM	Anthony Levandowski	Nancy Sun				Text Message	Text message from Anthony Levandowski where Anthony gave direction regarding positioning of
923		2/13/2017		[REDACTED]	Anthony Levandowski				Text Message	Text message regarding progress and delivery for next [REDACTED] LiDAR system.
924	UBER00236583 UBER00236584 UBER00236585 UBER00236586	2/14/2017	10 59 AM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding laser.
925	UBER00076388	2/14/2017	2:02 PM	Anthony Levandowski	Dan Gruver				Calendar File	Declined calendar invitation for 2/14/2017 LiDAR update meeting at 10-10:30 pm.
926	UBER00076799	2/14/2017		Taylor Benson	Anthony Levandowski; Brian Cullinane; Mat Henley; Nick Gicinto; Susan Chiang; Lior Ron			555 Market Street, San Francisco	Calendar File	Calendar invitation for 2/14/2017 meeting at 2:00-2:30pm.
927	UBER00086667	2/14/2017		[REDACTED]		Anthony Levandowski			E-Mail	Email regarding feature update to [REDACTED] LiDAR system.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
928	UBER00076804	2/15/2017		Kim Fennell	Anthony Levandowski; Brian McClendon; Kim Fennell; Manik Gupta; Michael Tocce; Michael Weiss-Malik; Lior Ron; Linda Nellis			1455 Market Street, San Francisco	Calendar File	Calendar invitation for 2/15/2017 meeting with third party vendor [REDACTED] (invited representatives Harold Goddijn, Anders Truelsen, and Willem Strijbos) regarding LiDAR data and data processing at 3:30-5:00pm.
929	UBER00012263	2/15/2017	9:44 PM	Eric Meyhofer	Scott Boehmke	Anthony Levandowski			E-Mail	Email regarding [REDACTED] r and LADAR calibration with Anthony Levandowski.
930	UBER00012478	2/15/2017	12:39 PM	Scott Boehmke	Eric Meyhofer; Anthony Levandowski				E-Mail	Email regarding Luminar and LADAR calibration with Anthony Levandowski.
931	UBER00086676	2/15/2017		Austin Russell [Luminar]		Anthony Levandowski			E-Mail	Email regarding feature update to Luminar LiDAR system.
932	UBER00076187	2/16/2017	6:37 AM	Anthony Levandowski	Eric Meyhofer	Scott Boehmke			E-Mail	Email regarding ladar and sensor from third party, [REDACTED].
933	UBER00076174	2/16/2017	6:38 AM	Anthony Levandowski	Eric Meyhofer	Scott Boehmke			E-Mail	Email regarding ladar and sensor from third party, [REDACTED].
934	UBER00236593	2/16/2017	3 16 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Text Message	Text message with Anthony Levandowski regarding third party, [REDACTED] LiDAR.
935	UBER00076323	2/16/2017	6:25 PM	Anthony Levandowski	Justin Kintz; Jeff Miller; Sherif Marakby; Eric Meyhofer	Travis Kalanick			E-Mail	Email regarding communication with Kyle Vogt from third party Cruise.
936	UBER00076225	2/16/2017	6:25 PM	Anthony Levandowski	Justin Kintz; Jeff Miller; Sherif Marakby; Eric Meyhofer	Travis Kalanick			E-Mail	Email regarding 2/16/17 meeting with Kyle Vogt from Cruise.
937	UBER00063730	2/16/2017	6:25 PM	Anthony Levandowski	Justin Kintz; Jeff Miller; Sherif Marakby;	Travis Kalanick			E-Mail	Email regarding laser development in market.
938	UBER00012255	2/16/2017	6:38 AM	Anthony Levandowski	Eric Meyhofer	Scott Boehmke			E-Mail	Email regarding [REDACTED] laser.
939	UBER00301508 UBER00301509 UBER00301510 UBER00301511 UBER00301512 UBER00301513 UBER00301514 UBER00301515 UBER00301516 UBER00301517 UBER00301518 UBER00301519 UBER00301520 UBER00301521 UBER00301522 UBER00301523	2/16/2017	7 02 PM	Anthony Levandowski	Don Burnette; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding laser.
940	UBER00012251	2/16/2017	9:54 PM	Matt Sweeney	Eric Meyhofer; Scott Boehmke; Chelsea Maughan Kohler	Eric Meyhofer; Anthony Levandowski			E-Mail	Email referencing that Anthony mentioned new LiDAR they were characterizing.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
941	UBER00098347 UBER00098348 UBER00098349 UBER00098350 UBER00098351 UBER00098352 UBER00098353 UBER00098354 UBER00098355 UBER00098356 UBER00098357 UBER00098358 UBER00098359 UBER00098360 UBER00098361 UBER00098362 UBER00098363 UBER00098364 UBER00098365 UBER00098366 UBER00098367	2/16/2017	11:25 PM	Anthony Levandowski	Max Levandowski				Text Messages	Text messages regarding LiDAR prototype.
942	UBER00076073	2/17/2017	8:02 PM	Anthony Levandowski	Adam Kenvarg			Lunch Tables	Calendar File	Accepted calendar invitation to 2/17/2017 LiDAR update meeting at 12-12:30 pm.
943	UBER00076074	2/17/2017	8:02 PM	Anthony Levandowski	Adam Kenvarg; Anthony Levandowski				Calendar File	Calendar invitation to 2/17/2017 LiDAR update meeting at 12-12:30 pm.
944		2/17/2017	2:55 PM	Anthony Levandowski	Adam Kenvarg				Text Message	Text message where Anthony Levandowski states that he will be attending LiDAR lunch
945	UBER00076331	2/18/2017	2:41 AM	Anthony Levandowski	Emil Michael				E-Mail	Email regarding 2/16/17 meeting with Kyle Vogt from Cruise.
946	UBER00076060	2/18/2017	7:34 AM	Anthony Levandowski	Amit Singhal; Manik Gupta				E-Mail	Email regarding 2/16/17 meeting with Kyle Vogt from Cruise.
947	UBER00301539 UBER00301540 UBER00301541 UBER00301542	2/20/2017	9 18 PM	Anthony Levandowski	Don Burnette; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski attaching testing videos.
948	UBER00076329	2/21/2017	12:46 AM	Anthony Levandowski	Chelsea Kohler				E-Mail	Email regarding LiDAR video.
949	UBER00076038	2/21/2017	6:25 AM	Anthony Levandowski	Lior Ron				E-Mail	Email regarding LiDAR data and third party
950	UBER00076275	2/21/2017	12:39 PM	Anthony Levandowski	Eric Meyhofer				E-Mail	Email regarding free space detector.
951	UBER00012724	2/21/2017	10:05 PM	Adam Kenvarg	Otto MechEs [Ottomes@uber.com]				E-Mail	Email with notes from February 21, 2017 meeting with Anthony and Eric regarding LiDAR.
952		September 2015		Anthony Levandowski	Cameron Poetzsch				Meeting	Meeting with Anthony Levandowski regarding potential purchase of lasers.
953		Just after September 2015		Anthony Levandowski	Nina Qi				Meetings	Meetings with Anthony Levandowski regarding potential purchase of lasers.
954		Just after September 2015		Cameron Poetzsch; Brian McClendon; Nina Qi					Meeting	Meeting discussing outreach by Anthony Levandowski to Brian McClendon regarding LiDAR company and potential investment.
955		October 2015		Anthony Levandowski	Brian McClendon				Meeting	Meeting with Anthony Levandowski discussing potential involvement with Uber on LiDAR.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
956		Before August 2016		Anthony Levandowski	Lior Ron				One-on-one conversations	Conversations with Anthony Levandowski where Anthony mentioned LiDAR, in connection with setting of milestones for payment related to the transaction.
957		Before August 2016		Anthony Levandowski	Don Burnette			The Rails 100 Mayfield Ave, Mountain View Cowper Street, Palo Alto 737 Harrison Street, San Francisco	One-on-one conversations	Conversations with Anthony Levandowski where Anthony mentioned LiDAR, including while Mr. Levandowski and Mr. Burnette were Google employees. Likely also had conversations with Anthony Levandowski where Anthony mentioned LiDAR at Cowper Street or 737 Harrison Street while Otto employees, but has no independent recollection of any specific conversation.
958		Before August 2016		Anthony Levandowski	Claire Delaunay			The Rails 100 Mayfield Ave, Mountain View Cowper Street, Palo Alto 737 Harrison Street, San Francisco	One-on-one conversations	Conversations with Anthony Levandowski where Anthony mentioned LiDAR, including general discussion of use of LiDAR in work while Mr. Levandowski and Ms. Delaunay were Google employees. Likely also had meetings with Anthony Levandowski where Anthony mentioned LiDAR at Cowper Street or 737 Harrison Street while Otto employees, but has no independent recollection of any specific meeting.
959		Before August 2016		Anthony Levandowski	David Weikersdorfer				One-on-one conversations	Conversations with Anthony Levandowski where Anthony mentioned LiDAR.
960		Before August 2016		Anthony Levandowski	George Lagui			Cowper Street, Palo Alto	One-on-one conversations	Impromptu conversations with Anthony Levandowski where Anthony mentioned LiDAR. No independent recollection of any specific meeting.
961		Before August 2016		Anthony Levandowski	Nancy Sun			737 Harrison Street, San Francisco	One-on-one conversations	Conversations with Anthony Levandowski where Anthony mentioned LiDAR, including one conversation regarding selection of electrical CAD tool for electrical engineering team for use on boards that would support LiDAR.
962		Before August 2016		Anthony Levandowski	James Haslim				Phone Calls	Phone call from Anthony Levandowski regarding LiDAR on personal cell phone.
963		Spring 2016		Anthony Levandowski	Carl Wellington; Brian Zajac; Scott Boehmke			3011 Smallman, Pittsburgh	Meeting	Meeting regarding NextGen layout and requirements.
964		March 2016		Anthony Levandowski	Brian McClendon				Phone Calls	May have had phone calls with Anthony Levandowski where Anthony mentioned LiDAR.
965		March or April 2016		Anthony Levandowski	Dan Ratner; Thomas Smith			Cowper Street, Palo Alto	Conversation	Conversation regarding LiDAR component.
966		March or April 2016		Anthony Levandowski	Somchaya Liemhetcharat and others			Pittsburgh	Meeting	May have had meeting with Anthony Levandowski where Anthony mentioned LiDAR.
967		April 2016		Anthony Levandowski	Gaetan Pennecot				Conversation	Conversation with Anthony Levandowski regarding leadership over FAC lens project.
968		Early May 2016		Anthony Levandowski	Scott Boehmke; Dan Gruver; Dan Ratner			737 Harrison Street, San Francisco	Meeting	Meeting with Anthony Levandowski regarding development of LiDAR sensor.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
969		May 2016		Anthony Levandowski	James Haslim				Conversation	Weekly conversations with Anthony Levandowski that likely involved discussion of LiDAR status.
970		May 2016		Anthony Levandowski	Brian Zajac; Carl Wellington; Robert Doll; John Bares; and others			Pittsburgh	Meeting	Meeting regarding laser specifications.
971		May 2016		Anthony Levandowski	Ben Becker; James Haslim; and others			737 Harrison Street, San Francisco	Meeting	Meeting with former employees of Tyto LiDAR.
972		May or June 2016		Anthony Levandowski	Filip Trojanek and others			737 Harrison Street, San Francisco	Meeting	Conversation with Anthony Levandowski related to work mounting sensors on vehicle.
973		May to November 2016		Anthony Levandowski	Adam Kenvarg; James Haslim; Florin Ignatescu; Dan Gruver; Dan Ratner; Gaetan Pennecot; Mike Karasoff; Nancy Sun; and potentially others			737 Harrison Street, San Francisco	Meetings (recurring)	Weekly LiDAR team meetings with attendance by Anthony Levandowski on approximately two occasions in May/June 2016 and October 2016.
974		May to November 2016		Anthony Levandowski	Thomas Smith			737 Harrison Street, San Francisco	One-on-one conversation	Conversation regarding power systems for LiDAR.
975		June 2016		Anthony Levandowski	Mike Karasoff; James Haslim; Nancy Sun; and potentially others			737 Harrison Street, San Francisco	Meeting	Meeting regarding timing and receiver boards.
976		June or July 2016		Anthony Levandowski	Eric Berdinis and others			Fishbowl, 737 Harrison Street, San Francisco	Meeting	Meeting with team leads regarding LiDAR use on vehicles.
977		June or July 2016		Anthony Levandowski	Claire Delaunay; James Haslim; David Weikersdorfer; and potentially others from Otto hardware team.			737 Harrison Street, San Francisco	Meetings	Meetings regarding LiDAR installation on vehicle.
978		June or July 2016		Anthony Levandowski	Mike Karasoff			737 Harrison Street, San Francisco	One-on-one conversation	Conversation with Anthony Levandowski regarding link between board and model.
979		August 2016		Anthony Levandowski	Gus Fuldner			737 Harrison Street, San Francisco	One-on-one conversation	May have had conversation with Anthony Levandowski where Anthony mentioned LiDAR during tour of truck.
980		Summer 2016		Anthony Levandowski	Dan Ratner; Mike Karasoff			737 Harrison Street, San Francisco	Conversation	Conversation with Anthony Levandowski regarding light pumps, in person at Dan Ratner's desk.
981		Summer 2016		Anthony Levandowski	Gaetan Pennecot				Conversation	Conversation with Anthony Levandowski regarding receipt of FAC lenses.
982		September 2016		Anthony Levandowski	Otto engineer team			737 Harrison Street, San Francisco	Meetings	Meetings regarding demonstration truck and [REDACTED] LiDAR.
983		June or July 2016		Anthony Levandowski	Mike Karasoff			737 Harrison Street, San Francisco	One-on-one conversation	Conversation with Anthony Levandowski regarding link between board and model.
984		October 2016		Anthony Levandowski	Dan Ratner			737 Harrison Street, San Francisco	One-on-one conversation	Conversation with Anthony Levandowski regarding CAD models, in person at Dan Ratner's desk.
985		October or November 2016		Anthony Levandowski	Brian Zajac; Eric Meyhofer; and others			50 33rd Street, Pittsburgh	Meeting	Meeting regarding discussion of Uber ATG needs and LiDAR development by third party manufacturer/supplier.
986		October or November 2016		Anthony Levandowski	Philipp Haban			50 33rd Street, Pittsburgh	One-on-one conversation	Conversation regarding LiDAR design.
987		October or November 2016		Anthony Levandowski	Michael Tocce and others			737 Harrison Street, San Francisco	Conversation	Conversation regarding LiDAR team support.
988		November or December		Anthony Levandowski	Mike Karasoff			737 Harrison Street, San Francisco	Conversation	Conversation regarding LiDAR scan.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
989		December 2016		Anthony Levandowski	John Bares				Meeting	Meeting regarding potential supply agreement for lasers.
990		Fall 2016		Anthony Levandowski	Carl Wellington; Brian Zajac; Scott Boehmke			3011 Smallman, Pittsburgh	Meetings	Meetings regarding changes to LiDAR system.
991		Fall 2016		Anthony Levandowski	Carl Wellington; Brian Zajac; Scott Boehmke				Phone Calls	Phone calls regarding changes to LiDAR system.
992		Late 2016		Anthony Levandowski	Gus Fuldner			1455 Market Street, San Francisco	One-on-one conversation	Conversation regarding LiDAR and insurance.
993		Early 2017		Anthony Levandowski	David Richter; Jeff Miller; Ophir Samson; and others			1455 Market Street, San Francisco	Meetings	Meetings regarding [REDACTED] from third party [REDACTED]
994		Early 2017		Anthony Levandowski	Ophir Samson			1455 Market Street, San Francisco	One-on-one conversation	Conversations regarding [REDACTED] from third party [REDACTED] at Ophir Samson's desk.
995		Early 2017		Anthony Levandowski	David Richter				Phone Calls; Text Messages	Phone calls and text messages regarding [REDACTED] sensors from third party [REDACTED] on personal cell phone. Mr. Richter no longer has recollected text messages on personal cell phone.
996		Early 2017		Anthony Levandowski	Don Burnette				One-on-one conversations	May have had approximately five conversations regarding LiDAR. No recollection of any specific conversation.
997		January or February 2017		Anthony Levandowski	Carlos Vallespi-Gonzalez			50 33rd Street, Pittsburgh	One-on-one conversation	Lunch meeting conversation regarding use of LiDAR in weather.
998		January 2017		Anthony Levandowski	Carl Wellington			50 33rd Street, Pittsburgh	One-on-one conversation	Impromptu conversation with Anthony Levandowski, including picture of point cloud from [REDACTED] LiDAR.
999		January 2017		Anthony Levandowski	Carl Wellington			Denver International Airport	Meeting	Meeting regarding LiDAR system and coverage.
1000		January 2017		Anthony Levandowski	Brian Zajac				Text Messages	May have had text messages from Anthony Levandowski where Anthony mentioned LiDAR on personal cell phone. Mr. Zajac no longer has recollected text messages on personal cell phone.
1001		February 2017		Anthony Levandowski	Carl Wellington; Scott Boehmke; Dan Tascione				Meeting	Meeting discussing [REDACTED] LiDAR specifications and capabilities.
1002		February 2017		Anthony Levandowski	Carl Wellington; Scott Boehmke; Dan Tascione				Document	Document reflecting discussion in comments regarding [REDACTED] LiDAR specifications and capabilities.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
1003	UBER00065221	2/23/2017		Travis Kalanick	Travis Kalanick; Eric Meyhofer; Neil Stegall; Matt Burton; Rajiv Krishnarao; David Richter; Lior Ron; Raffi Krikorian; Anthony Levandowski; bwest@xchangeleasing.com; Claire Delaunay; Jeff Miller; Austin Geldt; Matt Williams; Gautam Gupta; Jeremy Fine; talwar@xchangeleasing.com; Emil Michael; Matt Sweeney; Sherif Marakby; Noah Zych		SFO 1455 Market - 04th War Room (12) (R) [uber.com_373837383539312d313330@resource.calendar.google.com]	1455 Market Street, San Francisco	Calendar File	Calendar invitation for 2/23/17 Birdhouse Jam meeting at 12:30-2:30am.
1004	UBER00098292	2/23/2017		Dan Gruver					Meeting (notes)	Notes from 2/23/2017 Lidar TPM/Status meeting.
1005		2/24/2017	6:00 PM	Ognen Stojanovski	Anthony Levandowski				Text Message	Text message from Ognen Stojanovski regarding videos with LiDAR team and requesting phone call with Anthony Levandowski.
1006	UBER00011465	2/24/2017	9:15 PM	Gaetan Pennecon	Anthony Levandowski				E-Mail	Email regarding Fuji data.
1007	UBER00011466	2/24/2017	9:15 PM						Attachment	Attachment regarding Fuji data.
1008	UBER00011467	2/24/2017	9:15 PM						Attachment	Attachment regarding Fuji data.
1009	UBER00011468	2/24/2017	9:15 PM						Attachment	Attachment regarding Fuji data.
1010	UBER00011469	2/24/2017	9:15 PM						Attachment	Attachment regarding Fuji data.
1011	UBER00011470	2/24/2017	9:15 PM						Attachment	Attachment regarding Fuji data.
1012	UBER00011471	2/24/2017	9:15 PM						Attachment	Attachment regarding Fuji data.
1013	UBER00011472	2/24/2017	9:15 PM						Attachment	Attachment regarding Fuji data.
1014	UBER00086647	2/24/2017	10:22 PM	Anthony Levandowski	Lior Ron				E-Mail	Email regarding Fuji lens data.
1015	UBER00086648	2/24/2017	10:22 PM						Attachment	Attachment regarding Fuji lens data.
1016	UBER00086649	2/24/2017	10:22 PM						Attachment	Attachment regarding Fuji lens data.
1017	UBER00086650	2/24/2017	10:22 PM						Attachment	Attachment regarding Fuji lens data.
1018	UBER00086651	2/24/2017	10:22 PM						Attachment	Attachment regarding Fuji lens data.
1019	UBER00086652	2/24/2017	10:22 PM						Attachment	Attachment regarding Fuji lens data.
1020	UBER00086653	2/24/2017	10:22 PM						Attachment	Attachment regarding Fuji lens data.
1021	UBER00086654	2/24/2017	10:22 PM						Attachment	Attachment regarding Fuji lens data.
1022		2/24/2017		Anthony Levandowski				737 Harrison, San Francisco 50 33rd Street, Pittsburgh Zoom	Meeting	ATG all hands meeting, including presentation by Anthony Levandowski from 737 Harrison regarding LiDAR.
1023		Around 2/24/2017		Anthony Levandowski; Lior Ron	Jessica Yox; James Haslim			737 Harrison, San Francisco	Conversation	Conversation with Anthony Levandowski and Lior Ron regarding video of equipment used to calibrate LiDAR.
1024	UBER00069520	2/25/2017	7:19 AM	Shalin Mantri	Anthony Levandowski; Travis Kalanick				E-Mail	Email regarding 2/24/2017 ATG all hands meeting and presentation by Anthony regarding LiDAR.
1025	UBER00086642	2/26/2017	1:44 PM	Anthony Levandowski					Document	Document regarding 2/27/17 Mobile World Congress keynote, including discussion of laser and camera technology.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
1026	UBER00086531	2/26/2017	6:41 PM	Anthony Levandowski	Shari Doherty				E-Mail	Email regarding 2/27/17 Mobile World Congress keynote, including discussion of laser and camera technology.
1027	UBER00065245	2/27/2017	2:33 AM	Anthony Levandowski	Shalin Mantri; Travis Kalanick				E-Mail	Email regarding ATG all hands meeting, including presentation by Anthony Levandowski regarding LiDAR.
1028	UBER00098303	2/27/2017	6:34 PM	Dan Gruver	Sarah Abboud	Mason Feldman			E-Mail	Email regarding LiDAR R&D slides for ATG all hands presentation by Anthony Levandowski.
1029	UBER00086495	3/1/2017	3:10 AM	Anthony Levandowski	Carl Wellington; Tony Stentz	Tony Stentz; Carl Wellington; David Stager; Don Burnette; John Bares; Tom Petroff			E-Mail	Email regarding report on virtual bumper events relating to pedestrians and laser points.
1030	UBER00065573	3/1/2017	3:45 AM	Anthony Levandowski	atg-fte@uber.com	Travis Kalanick			E-Mail	Email regarding city deployment update referencing [REDACTED] LiDAR blueprint and planner tuning, builds, and testing.
1031	UBER00086497	3/2/2017	1:43 AM	Anthony Levandowski	David Richter	Lior Ron			E-Mail	Email regarding TetraVue LiDAR.
1032	UBER00087056 UBER00087057 UBER00087058 UBER00087059 UBER00087060	3/2/2017	10:38 AM	Anthony Levandowski	Max Levandowski				Text Messages	Text messages from Anthony Levandowski regarding [REDACTED] lasers on personal cell phone.
1033	UBER00098292	3/2/2017		Dan Gruver					Meeting (notes)	Notes from 3/2/2017 Lidar TPM/Status meeting.
1034	UBER00098305	3/3/2017	4:36 PM	Sonny Saldua	Rhian Morgan	Mason Feldman; Dan Gruver; Eyal Cohen; James Haslim; Lior Ron; Nancy Sun; Soren Juelsgaard; Thomas Smith			E-Mail	Email regarding LiDAR sync including reference to future communication between Anthony Levandowski, Lior Ron, and Sonny Saldua.
1035	UBER00086517	3/8/2017	8:31 PM	Google Calendar [calendar-notification@google.com]	Adam Kenvarg				Calendar File	Declined calendar invite for 3/10/17 LiDAR update meeting at 12:00-12:30pm.
1036	UBER00086518	3/8/2017	8:31 PM	Anthony Levandowski	Adam Kenvarg; Anthony Levandowski				Calendar File	Calendar invite for 3/10/17 LiDAR update meeting at 12:00-12:30pm.
1037	UBER00065202	3/8/2017		Travis Kalanick	Travis Kalanick; Jeff Miller; Matt Burton; Don Burnette; Paw Andersen; Josh Andrews; Jeremy Fine; Emil Michael; Rajiv Krishnarao; Anthony Levandowski; Eric Meyhofer; Brian Cullinane; David Richter; Neil Stegall; Matt Williams; Noah Zych; Austin Geidt; Betsy Masiello		SFO 1455 Market - 04th War Room (12) (R) [uber.com_373837383539312d313330@resource.calendar.google.com]	1455 Market Street, San Francisco	Calendar File	Calendar invitation for 3/8/17 Birdhouse Jam meeting at 10:30pm-12:30am.
1038	UBER00065203	3/8/2017		Travis Kalanick	Travis Kalanick; David Richter; Matt Burton; Don Burnette; Austin Geidt; Paw Andersen; Emil Michael; Brian Cullinane; Anthony Levandowski; Jeremy Fine; Neil Stegall; Jeff Miller; Eric Meyhofer; Matt Williams; Betsy Masiello; Noah Zych; Rajiv Krishnarao; Josh Andrews		SFO 1455 Market - 04th War Room (12) (R) [uber.com_373837383539312d313330@resource.calendar.google.com]	1455 Market Street, San Francisco	Calendar File	Calendar invitation for 3/8/17 Birdhouse Jam meeting at 10:30pm-12:30am.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
1039	UBER00086492	3/9/2017	1:19 PM	Anthony Levandowski	Michael Karasoff	James Haslim			E-Mail	Email regarding Fuji proto build update.
1040	UBER00098292	3/9/2017		Dan Gruver					Meeting (notes)	Notes from 3/9/2017 Lidar TPM/Status meeting.
1041	UBER00098368 UBER00098369 UBER00098370 UBER00098371 UBER00098372	3/10/2017	12:53 PM	Anthony Levandowski	Max Levandowski				Text Messages	Text messages with photo from Anthony Levandowski related to LiDAR on personal cell phone.
1042	UBER00087026 UBER00087027 UBER00087028 UBER00087029 UBER00087030	3/10/2017	2:38 PM	Anthony Levandowski	Max Levandowski				Text Messages	Text messages with photo from Anthony Levandowski related to LiDAR on personal cell phone.
1043		3/10/2017		Anthony Levandowski				Palo Alto	Meeting	Uber Technology Day at at Palo Alto office, including keynote speech by Anthony Levandowski regarding self-driving vehicles and LiDAR technology.
1044	UBER00086588	3/12/2017	7:57 AM	Google Calendar [calendar-notification@google.com]	Dan Gruver				Calendar File	Declined calendar invite for 3/14/17 LiDAR standup meeting at 10:00-10:30am.
1045	UBER00065491	3/13/2017	5:10 PM	Google Calendar [calendar-notification@google.com]	Anthony Levandowski			50 33rd Street, Pittsburgh	Calendar File	Accepted calendar invite for 3/13/17 AL leads meeting at 12:00-12:30pm.
1046	UBER00065510	3/13/2017	6:05 PM	Google Calendar [calendar-notification@google.com]	Anthony Levandowski			50 33rd Street, Pittsburgh	Calendar File	Accepted calendar invite for 3/13/17 AL leads meeting at 2:00-2:30pm.
1047	UBER00065522	3/14/2017	3:37 PM	Google Calendar [calendar-notification@google.com]	Anthony Levandowski			1455 Market Street, San Francisco 50 33rd Street, Pittsburgh 737 Harrison Street, San Francisco	Calendar File	Declined calendar invite for 3/28/17 ATG Staff Meeting at 11:00am-12:00pm.
1048	UBER00065533	3/14/2017	3:37 PM	Google Calendar [calendar-notification@google.com]	Anthony Levandowski			1455 Market Street, San Francisco	Calendar File	Accepted calendar invite for 3/28/17 ATG Staff Meeting at 11:00am-12:00pm.
1049	UBER00012238	3/15/2017	7:40 PM	Rajiv Krishnarao	Anthony Levandowski; Eric Meyhofer				E-Mail	Email regarding [REDACTED] LiDAR purchase in response to email from Anthony Levandowski.
1050	UBER00012249	3/15/2017	7:46 PM	Anthony Levandowski	Eric Meyhofer; Rajiv Krishnarao				E-Mail	Email regarding [REDACTED] platform and lasers.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
1051	UBER00065269	3/15/2017	8:13 PM	Anthony Levandowski	Travis Kalanick				E-Mail	Email regarding 2017 OKRs referencing objectives for [REDACTED] LiDAR build rates and prototype vehicles.
1052		3/15/2017		Anthony Levandowski	Chengjie Zhang; Lisa Weitekamp; Michael Weiss-Malik; Travis Kalanick; Bob Hansen; Jeffy Johns; Nikhil Murarka; Hersh Mehta; Robert Zlot; Gordon Bailey; Dmytro Konobrytskyi			Butcher and The Rye, 212 6th Street, Pittsburgh		AV MAPS team dinner, including discussion regarding LiDAR development.
1053	UBER00087061 UBER00087062	3/16/2017	11:11AM	Anthony Levandowski	Max Levandowski				Text Messages	Text messages with Anthony Levandowski regarding Fuji channels on personal cell phone.
1054	UBER00086519	3/16/2017	6:13 PM	Google Calendar [calendar-notification@google.com]	Adam Kenvarg				Calendar File	Declined calendar invite for 3/17/17 LiDAR update meeting at 12:00-12:30pm.
1055	UBER00086520	3/16/2017	6:13 PM	Anthony Levandowski	Adam Kenvarg; Anthony Levandowski				Calendar File	Calendar invite for 3/17/17 LiDAR update meeting at 12:00-12:30pm.
1056	UBER00098292	3/16/2017		Dan Gruver					Meeting (notes)	Notes from 3/16/2017 Lidar TPM/Status meeting.
1057	UBER00087063 UBER00087064 UBER00087065	3/17/2017	3:50 PM	Anthony Levandowski	Max Levandowski				Text Messages	Text messages with Anthony Levandowski regarding Fuji channels and point cloud on personal cell phone.
1058	UBER00086513	3/17/2017	5:27 PM	Google Calendar [calendar-notification@google.com]	Adam Kenvarg				Calendar File	Declined calendar invite for 3/17/17 LiDAR update meeting at 12:00-12:30pm.
1059	UBER00086514	3/17/2017	5:27 PM	Anthony Levandowski	Adam Kenvarg; Anthony Levandowski				Calendar File	Calendar invite for 3/17/17 LiDAR update meeting at 12:00-12:30pm.
1060	UBER00012245	3/17/2017	5:55 PM	Jeff Miller	Brian Zajac	Ophir Samson; Anthony Levandowski			E-Mail	Email regarding [REDACTED] LiDAR purchase and 3/13/2017 meeting with Anthony Levandowski
1061	UBER00086538	3/20/2017	6:05 AM	Google Calendar [calendar-notification@google.com]	David Stager				Calendar File	Accepted calendar invite for 3/20/17 Fuji laser presentation at 7:00-8:00pm.
1062	UBER00086541	3/20/2017	6:05 AM	Anthony Levandowski	David Stager	Anthony Levandowski			Calendar File	Calendar invite for 3/20/17 Fuji laser presentation at 7:00-8:00pm.
1063	UBER00086542	3/20/2017	6:05 AM	Google Calendar [calendar-notification@google.com]	David Stager				Calendar File	Accepted calendar invite for 3/20/17 dinner with truck team, freight team, laser team, and PIT crew, including conversation related to LiDAR, at 9:00-11:00pm.
1064	UBER00086546	3/20/2017	6:05 AM	Anthony Levandowski	David Stager	Anthony Levandowski			Calendar File	Calendar invite for 3/20/17 dinner with truck team, freight team, laser team, and PIT crew, including conversation related to LiDAR, at 9:00-11:00pm.
1065		3/20/2017		Anthony Levandowski				555 Market Street, San Francisco	Meeting	Fuji LiDAR leadership presentation for autonomy teams, including responses by Anthony Levandowski to questions from other audience members.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
1066	UBER00087066 UBER00087067 UBER00087068 UBER00087069 UBER00087070 UBER00087071 UBER00087072	3/21/2017	8:42 AM	Anthony Levandowski	Max Levandowski				Text Messages	Text messages with Anthony Levandowski and photos related to LiDAR design on personal cell phone.
1067	UBER00087073 UBER00087074 UBER00087075	3/21/2017	12:48 PM	Anthony Levandowski	Max Levandowski				Text Messages	Text messages with Anthony Levandowski and photos related to LiDAR and point cloud on personal cell phone.
1068	UBER00087076 UBER00087077 UBER00087078	3/22/2017	4:51 PM	Anthony Levandowski	Max Levandowski				Text Messages	Text messages with Anthony Levandowski and photos related to LiDAR and point cloud on personal cell phone.
1069	UBER00065204	3/22/2017		Travis Kalanick	Travis Kalanick; Jeff Miller; Paw Andersen; Neil Stegall; Don Burnette ; Matt Williams; Jeremy Fine; Josh Andrews; Matt Burton; Anthony Levandowski; Eric Meyhofer; Rajiv Krishnarao; Ophir Samson; Emil Michael; David Richter; Noah Zych; Austin Geldt; Betsy Masiello; Brian Cullinane		SFO 1455 Market - 04th War Room (12) (R) [uber.com_373837383539312d313330@resource.calendar.google.com]	1455 Market Street, San Francisco	Calendar File	Calendar invitation for 3/22/17 Birdhouse Jam meeting, including discussion of LiDAR purchases and canonical routes, at 8:00-10:00pm.
1070	UBER00098298	3/22/2017		Jeremy Fine					Meeting (notes)	Notes from 3/22/17 Birdhouse Jam meeting, including discussion of LiDAR purchases and canonical routes.
1071	UBER00086507	3/23/2017	7:38 PM	Google Calendar [calendar-notification@google.com]	Adam Kenvarg				Calendar File	Declined calendar invite for 3/24/17 LiDAR update meeting at 12:00-12:30pm.
1072	UBER00086508	3/23/2017	7:38 PM	Anthony Levandowski	Adam Kenvarg; Anthony Levandowski				Calendar File	Calendar invite for 3/24/17 LiDAR update meeting at 12:00-12:30pm.
1073	UBER00087079 UBER00087080 UBER00087081 UBER00087082 UBER00087083 UBER00087084 UBER00087085 UBER00087086 UBER00087087 UBER00087088 UBER00087089	3/24/2017	10:30 AM	Anthony Levandowski	Max Levandowski				Text Messages	Text messages with Anthony Levandowski and photos related to LiDAR on personal cell phone.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
1074	UBER00086625	3/25/2017	12:48 PM	Anthony Levandowski					Document	Draft document regarding ATG organizational structure and operations, referencing organization of laser teams working on LIDAR solutions as well as other autonomous vehicle development teams.
1075	UBER00065176	3/28/2017		Travis Kalanick	Travis Kalanick; Paw Andersen; David Richter; Lior Ron; Ophir Samson; Jeremy Fine; Josh Andrews; Don Burnette; Noah Zych; Rajiv Krishnarao; Matt Williams; Neil Stegall; Brian Cullinane; Sherif Marakby; Anthony Levandowski; Austin Geidt; Eric Meyhofer		uber.com_504954353033372645374326e6432305643576172526f6d2d313335303331@resource.calendar.google.com;SFO 1455 Market - 04th New York City (18) (R) [uber.com_2d33373634373637352d313637@resource.calendar.google.com]	1455 Markst Street, San Francisco 50 33rd Street Pittsburgh	Calendar File	Calendar invitation for 3/28/17 Birdhouse Follow-up meeting at 9:30-10:00pm.
1076	UBER00087090 UBER00087091 UBER00087092 UBER00087093 UBER00087094	3/29/2017	7:58 PM	Anthony Levandowski	Max Levandowski				Text Messages	Text messages with Anthony Levandowski and photos related to LiDAR on personal cell phone.
1077	UBER00086509	3/29/2017	10:38 PM	Google Calendar [calendar-notification@google.com]	Adam Kenvarg				Calendar File	Declined calendar invite for 3/31/17 LiDAR update meeting at 12:00-12:30pm.
1078	UBER00086510	3/29/2017	10:38 PM	Anthony Levandowski	Adam Kenvarg; Anthony Levandowski				Calendar File	Calendar invite for 3/31/17 LiDAR update meeting at 12:00-12:30pm.
1079	UBER00065237	3/30/2017	7:56 PM	Travis Kalanick	Rajiv Krishnarao	Anthony Levandowski; David Richte; Gautam Gupta; Julie Pankow; Ophir Samson			E-Mail	Email regarding [REDACTED] LiDAR purchase.
1080		3/30/2017		[REDACTED]	Anthony Levandowski				Text Message	Text message regarding [REDACTED] LiDAR system from third party cell phone.
1081	UBER00098292	3/30/2017		Dan Gruver					Meeting (notes)	Notes from 3/30/2017 Lidar TPM/Status meeting.
1082	UBER00086665	3/31/2017	2:12 PM	[REDACTED]	Anthony Levandowski				E-Mail	Email regarding [REDACTED] LiDAR system referencing earlier discussion with Anthony Levandowski.
1083		3/31/2017	6:50 PM	Anthony Levandowski	James Haslim				Text Messages	Text message regarding meeting with Anthony Levandowski, Travis Kalanick, and all hands team in preparation for 4/2/17 laser QVC show and point cloud video on personal cell phone.
1084		3/31/2017		[REDACTED]	Anthony Levandowski				Text Message	Text message regarding [REDACTED] LiDAR system from third party cell phone.
1085	UBER00065055	4/1/2017	4:52 AM	Anthony Levandowski	Brian Zajac; Eric Meyhofer				E-Mail	Email regarding [REDACTED] LiDAR purchase.
1086	UBER00065053	4/2/2017	2:37 AM	Anthony Levandowski	Brian Zajac; Eric Meyhofer				E-Mail	Email regarding [REDACTED] LiDAR purchase.
1087	UBER00065051	4/3/2017	1:43 PM	Brian Zajac	Anthony Levandowski	Eric Meyhofer			E-Mail	Email regarding [REDACTED] LiDAR purchase in response to email from Anthony Levandowski.
1088	UBER00086511	4/3/2017	6:42 PM	Google Calendar [calendar-notification@google.com]	Adam Kenvarg				Calendar File	Declined calendar invite for 4/21/17 LiDAR update meeting at 12:00-12:30pm.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
1089	UBER00086512	4/3/2017	6:42 PM	Anthony Levandowski	Adam Kenvarg; Anthony Levandowski				Calendar File	Calendar invite for 4/21/17 LiDAR update meeting at 12:00-12:30pm.
1090	UBER00087095 UBER00087096 UBER00087097	4/4/2017	3:37 PM	Anthony Levandowski	Max Levandowski				Text Messages	Text messages with Anthony Levandowski and photo related to LiDAR design on personal cell phone.
1091	UBER00012235	4/5/2017	5:32 AM	Devdatta Gangal	Travis Kalanick; Anthony Levandowski; Cameron Poetzsch; Gus Fuldner; Claire Delaunay	M Waleed Kadous; Matthew Prestopino; Vasu Parameswaran; Ian Kleinfeld; Manik Gupta; John Bares; Sam Williams; Murari Srinivasan			E-Mail (meeting notes)	Email with notes from 3/29/2017 and 4/3/2017 meetings, including discussion by Anthony Levandowski of LiDAR-related technology.
1092	UBER00086605	4/5/2017	12:13 PM	Anthony Levandowski					Document	Document regarding ATG UberFreight overview referencing development of LiDAR range-image segmenter, LiDAR-based classifiers, sensor testing, and multi-LiDAR localization.
1093	UBER00065569	4/6/2017	8:30 AM	Anthony Levandowski	robot-direct-reports [robot-direct-reports@uber.com]	Travis Kalanick	atg-internal@uber.com		E-Mail	Email regarding weekly update, including LiDAR-related and team updates.
1094	UBER00087098 UBER00087099 UBER00087100 UBER00087101 UBER00087102 UBER00087103 UBER00087104	4/6/2017	6:56 PM	Anthony Levandowski	Max Levandowski				Text Messages	Text messages with Anthony Levandowski and whiteboard photo related to LiDAR design on personal cell phone.
1095	UBER00098306	4/6/2017		Anthony Levandowski	Carl Wellington				One-on-one conversation	One-on-one status conversation, including LiDAR technology updates.
1096	UBER00086599	4/7/2017	9:17 PM	Anthony Levandowski					Document	Document regarding 4/17 and 4/10 week updates referencing [REDACTED] LiDAR test mules, Fuji prototypes, and cars with [REDACTED] LiDAR.
1097	UBER00086548	4/8/2017	1:31 AM	Google Calendar [calendar-notification@google.com]	Dan Gruver				E-Mail	Declined calendar invite for 4/19/17 LiDAR standup meeting at 2:00-2:30am.
1098	UBER00086526	4/10/2017	5:51 PM	Anthony Levandowski	Dan Tascione	Don Burnette; Chris Peplin; David Stager; Owen Cheng; Paw Andersen			E-Mail	Email regarding LiDAR-related data on vehicles.
1099	UBER00012234	4/11/2017	2:34 AM	Anthony Levandowski	Claire Delaunay	James Haslim; Eric Meyhofer			E-Mail	Email regarding [REDACTED] LiDAR.
1100	UBER00012233	4/11/2017	2:39 AM	Claire Delaunay	Anthony Levandowski	Eric Meyhofer; James Haslim			E-Mail	Email regarding [REDACTED] LiDAR in response to email from Anthony Levandowski.
1101	UBER00086505	4/11/2017	9:15 PM	Google Calendar [calendar-notification@google.com]	Adam Kenvarg				E-Mail	Declined calendar invite for 4/14/17 LiDAR update meeting at 12:00-12:30pm.
1102	UBER00086506	4/11/2017	9:15 PM	Anthony Levandowski	Adam Kenvarg; Anthony Levandowski				Calendar File	Calendar invite for 4/14/17 LiDAR update meeting at 12:00-12:30pm.
1103	UBER00086515	4/11/2017	9:15 PM	Google Calendar [calendar-notification@google.com]	Adam Kenvarg				E-Mail	Accepted calendar invite for 4/14/17 LiDAR update meeting at 12:00-12:30pm.
1104	UBER00086516	4/11/2017	9:15 PM	Anthony Levandowski	Adam Kenvarg; Anthony Levandowski				Calendar File	Calendar invite for 4/14/17 LiDAR update meeting at 12:00-12:30pm.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
1105		4/11/2017		Anthony Levandowski					Meeting	Uber ATG presentation by Anthony Levandowski, including discussion related to LiDAR.
1106	UBER00065547	4/11/2017	9:30 PM	Anthony Levandowski	David Richter; Jill Hazelbaker	Adam Whitfield; Don Burnette; Ray Roth; Suzy Sammons; Travis Kalanick			E-Mail	Email regarding Uber ATG presentation by Anthony Levandowski, including discussion related to LiDAR.
1107	UBER00086558	4/11/2017	11:13 PM	Google Calendar [calendar-notification@google.com]	Dan Gruver				E-Mail	Declined calendar invite for 4/18/17 LiDAR standup meeting at 11:30am-12:00pm.
1108	UBER00012216	4/12/2017	3:01 AM	Anthony Levandowski	atg-staff@uber.com				E-Mail	Email regarding visualization examples and 4/12/2017 meeting with Anthony Levandowski and engineer regarding LiDAR intensity.
1109	UBER00012232	4/12/2017	4:12 AM	Paw Andersen	Anthony Levandowski				E-Mail	Email regarding visualization examples and 4/12/2017 meeting with Anthony Levandowski and engineer regarding LiDAR intensity.
1110	UBER00012231	4/12/2017	5:37 AM	Don Burnette	Anthony Levandowski; atg-staff@uber.com				E-Mail	Email regarding visualization examples and 4/12/2017 meeting with Anthony Levandowski and engineer regarding LiDAR intensity.
1111	UBER00012230	4/12/2017	9:36 AM	David Stager	Don Burnette	atg-staff@uber.com; Anthony Levandowski			E-Mail	Email regarding visualization examples and 4/12/2017 meeting with Anthony Levandowski and engineer regarding LiDAR intensity.
1112	UBER00012229	4/12/2017	4:10 PM	Anthony Levandowski	David Stager; Don Burnette	atg-staff@uber.com			E-Mail	Email regarding visualization examples and 4/12/2017 meeting with Anthony Levandowski and engineer regarding LiDAR intensity.
1113		4/12/2017	4:54 PM	Anthony Levandowski	Peter Melick				Text Message	Text message from Anthony Levandowski with screenshot of whiteboard notes related to LiDAR from 4/12/17 meeting.
1114	UBER00086578	4/12/2017	11:36 PM	Google Calendar [calendar-notification@google.com]	Dan Gruver				E-Mail	Declined calendar invite for 4/25/17 LiDAR standup meeting at 11:30am-12:00pm.
1115		4/12/2017		Anthony Levandowski	Peter Melick; Eric Meyhofer			50 33rd Street, Pittsburgh Zoom	Meeting	Meeting regarding LiDAR simulation with Anthony Levandowski participating via Zoom.
1116	UBER00012227	4/13/2017	4:30 AM	Brian Cullinane	Anthony Levandowski; David Stager; Don Burnette	atg-staff@uber.com			E-Mail	Email regarding visualization examples and 4/12/2017 meeting with Anthony Levandowski and engineer regarding LiDAR intensity.
1117	UBER00301544 UBER00301545	4/13/2017	8:41 AM	Anthony Levandowski	Don Burnette; Anthony Levandowski				Text Messages	Text messages with Anthony Levandowski regarding LiDAR vendor.
1118		4/13/2017	11:39 AM	Anthony Levandowski	Peter Melick				Text Messages	Text messages with Anthony Levandowski regarding introduction on laser sim and competition.
1119	UBER00012226	4/13/2017	12:55 PM	Eric Meyhofer	Julie Viray; David Stager	Anthony Levandowski			E-Mail	Email regarding LiDAR SIM team and 4/13/17 meeting with Anthony Levandowski, Eric Meyhofer, and Peter Melick regarding LiDAR SIM team work.
1120	UBER00012224	4/13/2017	2:59 PM	David Stager	Eric Meyhofer; Paw Andersen	Julie Viray; Anthony Levandowski			E-Mail	Email regarding LiDAR SIM team and 4/13/17 meeting with Anthony Levandowski, Eric Meyhofer, and Peter Melick regarding LiDAR SIM team work.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
1121	UBER00012212	4/13/2017	6:40 PM	Anthony Levandowski	David Stager	Eric Meyhofer; Paw Andersen; Julie Viray; Brian Bailey			E-Mail	Email regarding LiDAR SIM team and 4/13/17 meeting with Anthony Levandowski, Eric Meyhofer, and Peter Melick regarding LiDAR SIM team work.
1122	UBER00012210	4/13/2017	7:59 PM	Eric Meyhofer	Anthony Levandowski	David Stager; Paw Andersen; Julie Viray; Brian Bailey			E-Mail	Email regarding LiDAR SIM team and 4/13/17 meeting with Anthony Levandowski, Eric Meyhofer, and Peter Melick regarding LiDAR SIM team work.
1123	UBER00098292	4/13/2017		Dan Gruver					Meeting (notes)	Notes from 4/13/2017 Lidar TPM/Status meeting.
1124	UBER00086501	4/14/2017	4:37 PM	Google Calendar [calendar-notification@google.com]	Adam Kenvarg				E-Mail	Declined calendar invite for 4/28/17 LiDAR update meeting at 12:00-12:30pm.
1125	UBER00086502	4/14/2017	4:37 PM	Anthony Levandowski	Adam Kenvarg; Anthony Levandowski				Calendar File	Calendar invite for 4/28/17 LiDAR update meeting at 12:00-12:30pm.
1126	UBER00065205	4/18/2017		Travis Kalanick	Travis Kalanick; David Richter; Rajiv Krishnarao; Jill Hazelbaker; Eric Meyhofer; Neil Stegall; Brian Cullinane; Josh Andrews; Betsy Masiello; Matt Burton; Noah Zych; Jeremy Fine; Emil Michael; Matt Williams; Austin Geidt; Jeff Miller; Don Burnette; Paw Andersen; Anthony Levandowski		SFO 1455 Market - 04th New York City (18) (R) [uber.com_2d33373634373637352d313637@resource.calendar.google.com]	1455 Market Street, San Francisco	Calendar File	Calendar invitation for 4/18/17 Birdhouse Jam meeting at 9:30-10:30pm.
1127	UBER00086568	4/19/2017	10:24 PM	Google Calendar [calendar-notification@google.com]	Dan Gruver				E-Mail	Declined calendar invite for weekly LiDAR standup meeting at 11:30am-12:00pm.
1128	UBER00076783	4/19/2017		Anthony Levandowski	Eric Meyhofer				Meeting (notes)	Notes from 1:1 meeting with Anthony Levandowski, including discussion of GPU module, [REDACTED]
1129	UBER00098292	4/20/2017		Dan Gruver					Meeting (notes)	Notes from 4/20/2017 Lidar TPM/Status meeting.
1130	UBER00086525	4/23/2017	5:37 AM	Anthony Levandowski	Scott Boehmke				E-Mail	Email regarding [REDACTED] LiDAR.
1131	UBER00086535	4/23/2017	5:38 AM	Anthony Levandowski	Prashant Chouta				E-Mail	Email regarding [REDACTED] LiDAR.
1132	UBER00012220	4/23/2017	7:10 AM	Anthony Levandowski	Prashant Chouta				E-Mail	Email regarding [REDACTED] LiDAR.
1133	UBER00012222	4/23/2017	7:30 AM	Prashant Chouta	Anthony Levandowski				E-Mail	Email regarding [REDACTED] LiDAR in response to email from Anthony Levandowski.
1134	UBER00076783	4/24/2017		Anthony Levandowski	Eric Meyhofer				Meeting (notes)	Notes from 1:1 meeting with Anthony Levandowski, including discussion of SIM transition.
1135	UBER00065577	4/25/2017	4:29 AM	Anthony Levandowski	Anthony Levandowski	Travis Kalanick	atg-internal@uber.com		E-Mail	Email regarding 4/17 and 4/10 weekly updates, Q1 retrospective, and Q2 OKRs referencing [REDACTED] LiDAR test mules, Fuji prototypes, and [REDACTED] LiDAR testing.
1136		4/25/2017	9:06 AM	Anthony Levandowski	Brian Zajac				Text Messages	Text messages with Anthony Levandowski regarding LiDAR-related parts.
1137	UBER00086521	4/25/2017	6:53 PM	Google Calendar [calendar-notification@google.com]	Alicia Poling				E-Mail	Accepted calendar invite for 4/26/17 LiDAR sim planning meeting at 1:30-2:00pm.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
1138	UBER00086522	4/25/2017	6:53 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Calendar File	Calendar invite for 4/26/17 LiDAR sim planning meeting at 1:30-2:00pm.
1139	UBER00086533	4/25/2017	6:53 PM	Google Calendar [calendar-notification@google.com]	Eric Meyhofer				E-Mail	Accepted calendar invite for 4/26/17 LiDAR sim planning meeting at 1:30-2:00pm.
1140	UBER00086534	4/25/2017	6:53 PM	Anthony Levandowski	Eric Meyhofer; Anthony Levandowski				Calendar File	Calendar invite for 4/26/17 LiDAR sim planning meeting at 1:30-2:00pm.
1141		4/25/2017		Anthony Levandowski	Carlos Vallespi			Bar Marco, 2216 Penn Ave Pittsburgh	Conversation	Conversation during Uber employee team dinner with Anthony Levandowski, including discussion of rain drops on LiDAR system.
1142	UBER00098292	4/25/2017		Dan Gruver					Meeting (notes)	Notes from 4/25/2017 Lidar TPM/Status meeting.
1143	UBER00086598	4/26/2017		Eric Meyhofer	Eric Meyhofer; Paw Andersen; Peter Melick; Brian Bailey; Anthony Levandowski		uber.com_5049543530333372645374326e64334f6c644861697270696e2d323930393835@resource.calendar.google.com		Calendar File	Calendar invite for 4/26/17 LiDAR sim planning meeting at 10:30-11:00am.
1144	UBER00086598	4/26/2017		Eric Meyhofer	Eric Meyhofer; Paw Andersen; Peter Melick; Brian Bailey; Anthony Levandowski		uber.com_5049543530333372645374326e64334f6c644861697270696e2d323930393835@resource.calendar.google.com	50 33rd Street Pittsburgh	Calendar File	Calendar invitation for 4/26/17 Lidar Sim Planning meeting at 5:30-6:00pm.
1145	UBER00086547	4/27/2017	8:35 PM	Anthony Levandowski	atg-internal@uber.com				E-Mail	Email regarding organizational changes related to LiDAR.
1146	UBER00086503	4/27/2017	8:40 PM	Google Calendar [calendar-notification@google.com]	Adam Kenvarg				E-Mail	Declined calendar invite for weekly LiDAR update meeting at 12:00-12:30pm.
1147	UBER00086504	4/27/2017	8:40 PM	Anthony Levandowski	Adam Kenvarg; Anthony Levandowski				Calendar File	Calendar invite regarding weekly LiDAR update at 12:00-12:30pm.
1148	UBER00069409	4/27/2017	9:25 PM	Eric Meyhofer	Anthony Levandowski	atg-internal@uber.com			E-Mail	Email regarding organizational changes related to LiDAR and 4/28/17 all-hands meeting with Anthony Levandowski in San Francisco.
1149		4/28/2017						San Francisco	Meeting	All-hands meeting with Anthony Levandowski in San Francisco, including discussion of organizational changes related to LiDAR.
1150	UBER00076783	5/1/2017		Anthony Levandowski	Eric Meyhofer				Meeting (notes)	Notes from 1:1 meeting with Anthony Levandowski, including discussion of SIM team update.
1151		5/12/2017		Anthony Levandowski	Oleg Khainovski			777 Harrison, San Francisco	One-on-one conversation	Conversation with Anthony Levandowski regarding no involvement in LiDAR.
1152		February or March 2017		Anthony Levandowski	Jeremy Fine; Adam Whitfield; and potentially others			1455 Market Street, San Francisco	Conversations; Phone Calls	Conversations with Anthony Levandowski in person and on phone calls for slide related to LiDAR on presentation prepared for Travis Kalanick.
1153	UBER00098307	February or March 2017							Document	Slide related to LiDAR on presentation prepared for Travis Kalanick.
1154		March 2017		Anthony Levandowski	Carl Wellington; James Haslim; Scott Boehmke				Conversations	Conversations with Anthony Levandowski regarding the Waymo litigation and LiDAR.
1155		April 2017		Anthony Levandowski	Wes Doonan				Phone Call	Phone call with Anthony Levandowski regarding LiDAR units for testing.
1156	UBER00016400	Undated		Anthony Levandowski					Document	LiDAR sketch.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
1157	UBER00016401	Undated		Anthony Levandowski					Document	LiDAR sketch.
1158	UBER00016402	Undated		Anthony Levandowski					Document	LiDAR sketch.
1159	UBER00016404	Undated		Anthony Levandowski					Document	LiDAR whiteboard drawing.
1160	UBER00016405	Undated		Anthony Levandowski					Document	LiDAR whiteboard drawing.
1161	UBER00016407	Undated		Anthony Levandowski					Document	LiDAR whiteboard drawing.
1162	UBER00016406	Undated		Anthony Levandowski					Document	LiDAR sketch.
1163	UBER00016408	Undated		Anthony Levandowski					Document	LiDAR sketch.
1164	UBER00016403	Undated		Anthony Levandowski					Document	LiDAR sketch.
1165	UBER00076709	Undated		Dan Gruver					Document	Photonics West 2017 vendor list, including input from Anthony Levandowski.
1166		Undated		Anthony Levandowski	Travis Kalanick				One-on-one conversations	Conversations with Anthony Levandowski where Anthony mentioned LiDAR, including one tutorial explanation of how LiDAR works and other mentions of laser and laser data during discussions related to perception.
1167		Undated		Anthony Levandowski	Asheem Linaval				One-on-one conversations	Conversations with Anthony Levandowski where Anthony mentioned LiDAR.
1168		Undated		Anthony Levandowski	John Bares				Phone Calls	Phone calls from Anthony Levandowski where Anthony mentioned LiDAR on personal cell phone.
1169		Undated		Anthony Levandowski	Dan Gruver				Phone Calls; Text Messages	Phone calls and text messages from Anthony Levandowski where Anthony mentioned LiDAR on personal cell phone.
1170		Undated		Anthony Levandowski	Eric Meyhofer				Phone Calls	Phone calls from Anthony Levandowski where Anthony mentioned LiDAR on personal cell phone.
1171		Undated		Anthony Levandowski	Nina Qi				Phone Calls; Text Messages	May have had phone calls and/or text messages from Anthony Levandowski where Anthony mentioned LiDAR on personal cell phone.
1172		Undated		Anthony Levandowski	Cameron Poetzscher				Phone Calls; Text Messages	May have had phone calls and/or text messages from Anthony Levandowski where Anthony mentioned LiDAR on personal cell phone.
1173		Undated		Anthony Levandowski	Jeff Holden				Phone Calls; Text Messages	May have had phone calls and/or text messages from Anthony Levandowski where Anthony mentioned LiDAR on prior personal cell phone. Mr. Holden no longer has possession of that prior personal cell phone.

No.	Bates Number (as applicable)	Date	Time	Author/Sent	Recipient(s)	CC	BCC	Place	Mode of Communication	Subjects Discussed
1174		Undated		Anthony Levandowski	Lior Ron				Phone Calls; Text Messages	May have had phone calls and/or text messages from Anthony Levandowski where Anthony mentioned LiDAR on personal cell phone, in connection with setting of milestones for payment related to the transaction .
1175		Undated		Anthony Levandowski	Colin Sebern				Meetings	May have had meetings with Anthony Levandowski where Anthony mentioned LiDAR. No independent recollection of any specific meeting.
1176		Undated		Anthony Levandowski	Mason Feldman				Phone Calls	May have had phone calls from Anthony Levandowski where Anthony mentioned LiDAR on personal cell phone. No independent
1177		Undated		Anthony Levandowski					Phone Calls	Phone calls from Anthony Levandowski where Anthony mentioned LiDAR on third party cell phone.
1178	RON000754	Undated		Lior Ron					Document	Document reflecting discussion with Anthony Levandowski regarding LiDAR.
1179	RON000795	Undated		Lior Ron					Document	Document reflecting personal notes or discussion with Anthony Levandowski regarding LiDAR.
1180	RON006653	Undated		Lior Ron					Document	Document reflecting discussion with Anthony Levandowski or James Haslim regarding software and laser prototypes.
For entries that reference documents produced in this litigation, the "Date" and "Time" columns were populated using document metadata. Because documents were processed in Greenwich Mean Time or Pacific Time, and with custodians in different time zones, there may be date and time discrepancies. Available date and time metadata has been produced with documents for further clarification.										
Nothing in this communications log is an admission by Defendants of the relevance or admissibility of any information, for any purpose. Defendants reserve all objections as to competency, relevance, materiality, privilege, or admissibility related to the use of any information in this communications										

EXHIBIT 57

**REDACTED VERSION
OF DOCUMENT
SOUGHT TO BE SEALED**

EXHIBIT 58

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9 Attorneys for WAYMO LLC

10 UNITED STATES DISTRICT COURT

11 NORTHERN DISTRICT OF CALIFORNIA

12 SAN FRANCISCO DIVISION

13 WAYMO LLC,

14 Plaintiff,

15 vs.

16 UBER TECHNOLOGIES, INC.;
17 OTTOMOTTO LLC; OTTO TRUCKING
LLC,

18 Defendants.

CASE NO. 3:17-cv-00939

**PLAINTIFF WAYMO'S SUBMISSION TO
SPECIAL MASTER COOPER
REGARDING UBER'S OBLIGATION TO
PRODUCE JACOBS LETTER AND
RELATED DOCUMENTS**

Trial Date: February 5, 2018

1 would seem logical to me it did get printed somewhere.” (12/4/17 Hearing Tr., 17:15-21.)
 2 Indeed, according to Ms. Padilla, the letter was “handed” over to others at Uber (*id.* at 15:16-24),
 3 which suggests that the letter exists at Uber in hard copy. An electronic search protocol is
 4 irrelevant to locating hard copy documents. If there are hard copies of the Jacobs letter or
 5 resignation email, both of which are responsive to Waymo’s document requests, then Uber’s
 6 arguments about search terms are moot. Uber has not yet confirmed whether hard copies exist. If
 7 there were indeed hard copies of these documents responsive to Waymo’s RFPs, Uber was
 8 obligated to produce them.³

9 With respect to electronic copies of the documents, the fact that the Jacobs letter and
 10 resignation email would not have hit on negotiated search terms does not excuse Uber’s failure to
 11 produce these known documents for several reasons. Initially, as the Special Master should recall,
 12 the parties **never** entered into an agreement under which the parties agreed that they each only
 13 needed to use search terms to try to locate responsive documents. Tellingly, Uber did not point
 14 the Court to any such agreement at any of the recent hearings on this subject. Nor can it.

15 Search terms are intended to help parties search large volumes of ESI to find responsive
 16 documents; they do not obviate a party’s discovery obligations once responsive documents are
 17 already found. Once Uber and its senior management and counsel had actual knowledge of the
 18 Jacobs documents and their relevance to this case, they should have produced them. Indeed,
 19 courts have recognized that while search terms have a place in e-discovery, it is unreasonable for
 20 parties to rely entirely on such terms in searching for and producing responsive information. *See*
 21 *F.D.I.C. v. Baldini*, Case No. 1:12-cv-7050, 2014 WL 1302479, at *2 (S.D. W. Va. Mar. 28, 2014)
 22 (“If, however, a producing party is aware of a relevant document that is not triggered by the
 23 application of the search terms, the producing party shall produce that document.”); *Moore v.*
 24 *Publicis Groupe*, 287 F.R.D. 182, 190-91 (S.D.N.Y. 2012) (noting the limitations of key word
 25 searches); *cf. Arthur v. Atkinson Freight Lines Corp.*, 164 F.R.D. 19, 20 (S.D.N.Y. 1995) (“[T]he
 26

27 ³ Waymo notes that the definition of “DOCUMENTS” in its document requests included
 28 documents in any medium, and so would call for both hard copy and electronic documents. (Ex.
 3.)

1 DATED: December 5, 2017

QUINN EMANUEL URQUHART & SULLIVAN,
LLP

2
3 By /s/ Charles K. Verhoeven

4 Charles K. Verhoeven
Attorneys for WAYMO LLC

EXHIBIT 59

**REDACTED VERSION
OF DOCUMENT
SOUGHT TO BE SEALED**

EXHIBIT 60

1/16/2018

Waymo LLC v Uber Technologies, Inc. and Ottomotto LLC
Case No. 3:17-cv-00939-WHA**3. Inventory of Non-Attributable Devices**

<u>Employee</u>	<u>Device(s)</u>
Julie Ambrose	Chromebook
Benjamin Arthur	Chromebook
Matthew Bryant	1 Macbook Laptop and 1 Lenovo Laptop
Yulin Chen	Macbook Laptop
Susan Chiang	ASUS Laptop; MiFi Device
Anna Chung	Alcatel Smartphone, ASUS Laptops (2); Samsung Chromebook; Android smartphones (2)
Will Demaine	Dell XPS 13
Yifang Ding	Macbook Laptop
Nicholas Gicinto	Alcatel Smartphones (2); ASUS Laptop; ASUS Laptop (unopened in box); ZTE MIFI
Mat Henley	Laptops (2); MiFi Device
Robert Hugh	Macbook Laptop
Dave Hughes	Macbook Laptops (2)
Jonny Lee	Macbook Laptop
Alex Levinson	Macbook Laptops (5)
Kevin Maher	30-50 Phones or Sim Cards, primarily used by JinJian Zhai and Matthew Bryant (former Uber employees), 1 Macbook Laptop and 1 Lenovo Laptop
Mike McLoughlin	Macbook Laptop
Jake Nocon	Alcatel Smartphone; ASUS Laptop; LG Smartphone; Samsung Chromebook; ZTE MIFI
Quang Pham	Macbook Laptop
Frank Portman	Macbook Laptop
Edward Russo	ASUS Laptops (4)
Hui Wang	Macbook Laptop

EXHIBIT 61

1 IN THE UNITED STATES DISTRICT COURT
2 FOR THE EASTERN DISTRICT OF TEXAS
3 MARSHALL DIVISION

4 FUNCTION MEDIA, LLC,) (
5) (CIVIL DOCKET NO.
6) (2:07-CV-279-CE
7 VS.) (MARSHALL, TEXAS
8) (
9 GOOGLE, INC, ET AL) (AUGUST 19, 2010
10) (9:00 A.M.

11 MOTIONS HEARING
12 BEFORE THE HONORABLE JUDGE CHAD EVERINGHAM
13 UNITED STATES MAGISTRATE JUDGE

14
15 APPEARANCES:

16
17 FOR THE PLAINTIFF: (See attached sign-in sheet.)

18 FOR THE DEFENDANTS: (See attached sign-in sheet.)
19

20 COURT REPORTER: MS. SHELLY HOLMES, CSR
21 Deputy Official Court Reporter
22 2593 Myrtle Road
23 Diana, Texas 75640
24 (903) 663-5082

25 (Proceedings recorded by mechanical stenography,

transcript produced on a CAT system.)

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I N D E X

August 19, 2010

Page

Appearances	1
Hearing	3
Court Reporter's Certificate	180

1 LAW CLERK: All rise.

2 THE COURT: Please be seated.

3 All right. We've got a hearing on some
4 post-trial motions in Case 2:07-CV-279, Function Media
5 against Google.

6 What says the plaintiff?

7 MR. TRIBBLE: Your Honor, Max Tribble. I'm
8 here with Joe Grinstein, Justin Nelson, Stacy Schultz,
9 Warren Burns, Calvin Capshaw, and Chris Bunt. Plaintiff
10 is ready to proceed, Your Honor.

11 THE COURT: All right. For Google?

12 MR. DEFRANCO: Good morning, Your Honor.
13 Ed DeFranco for Defendant Google. I'm here with Patrick
14 Curran and Amy Candido. Also with me is Melissa Smith,
15 Your Honor, and John Labar from Google.

16 THE COURT: All right.

17 MR. DEFRANCO: Mr. Verhoeven sends his
18 apologies, Your Honor. He had a long-planned family
19 vacation in between trials, or otherwise he would be
20 here.

21 THE COURT: All right. Well, you can do his
22 time for him and --

23 MR. DEFRANCO: That's why I'm here, Your
24 Honor.

25 THE COURT: I'm being facetious. Well, good

1 There's been extensive briefing on the issue
2 of spoliation, and I feel honestly like I have given the
3 same explanation over and over, and it's going somewhat
4 into a black hole. So I want to really take a moment to
5 focus on the actual facts in this case. And to that
6 end, I'm going to put up the supplemental declaration of
7 Theresa Beaumont from Google.

8 Theresa Beaumont is a discovery counsel at
9 Google with primary responsibility for dealing with the
10 production of electronic information from Google in --
11 across all sorts of different litigations.

12 And in Paragraph 2, you can see there that
13 she says, "As I stated in my January 15, 2010,
14 declaration, in September 2008, Google decided, based on
15 accepted widespread and reasonable industry standards
16 and consistent with the nature of these communications,
17 that it would no longer record instant messages as a
18 standard business practice."

19 That change in the default setting only
20 concerned instant messages taking place after September
21 2008. The change in the default setting did not result
22 in the destruction of any previously saved instant
23 message chat records. No, none, no destruction of chat
24 records.

25 In particular, all instant messages recorded

1 So it's not the case where we just sort of
2 switched everybody to off the record and said, "You
3 know, oh, well, that's our new policy." Those people
4 were told to preserve instant messages that were
5 relevant by putting them on the record.

6 It's in the record that Theresa Beaumont's
7 first declaration makes it clear, Google can't change --
8 the setting has to be the same -- the default setting
9 across the entire, like, 30,000 Google employees. So
10 it's not an instance where we could have just said,
11 "Okay, let's put Sergey Brin or Susan Wojcicki or
12 whomever's IMs on -- on the record default and everybody
13 else is on off the record." Everybody's had to either
14 be on or off.

15 You know, and for larger data management
16 and policy reasons, Google made the decision to switch
17 to off the record -- and because they couldn't put those
18 people individually on -- on the record, they told them
19 for pertinent communications related to this litigation
20 hold, you need to put them on the record.

21 Now, those witnesses --

22 THE COURT: How was that communicated?

23 MS. CANDIDO: Excuse me?

24 THE COURT: How was that communicated to
25 these employees?

1 MS. CANDIDO: I believe that that was
2 communicated to those employees -- at least in the first
3 instance, with the policy change, as part of the
4 announcement of the policy change. And then I think
5 also in connection with document -- so the
6 communications they have with individuals at the
7 beginning of a lawsuit about collecting documents and
8 things like that, I believe those were orally -- well, I
9 don't want to reveal privilege, but I -- I think they
10 were additional reinforcements about policy --

11 THE COURT: But you swore out an affidavit
12 that said that.

13 MS. CANDIDO: Yes, there -- there's a sworn
14 affidavit right here that they were told that.

15 THE COURT: I just was interested in how
16 that was communicated.

17 MS. CANDIDO: Well, I know that it was
18 communicated in connection with the policy change when
19 it took place.

20 You know, I just want to refer, too, to that
21 Malletier case where the Court specifically says that
22 a -- the claim that a defendant was required to log
23 every chat was, quote, akin to a demand that a party to
24 litigation install a system to monitor and record phone
25 calls coming into its office on the hypothesis that some

1 of them may contain relevant information.

2 There's no such requirement. And really
3 it's just the same hypothesis that -- that Mr. Nelson is
4 putting forth here that there might -- there just --
5 there might be these chats or by putting chats off the
6 record, it enables people to have secret chats about
7 things that aren't -- well, I mean, you can have a
8 hallway conversation, you can have a phone call
9 conversation. It's no different than that.

10 And to the extent they want discovery with
11 respect to those things, that's what depositions are
12 for. At depositions, they were free to ask all these
13 witnesses, "What did you communicate with people in the
14 hallway about X subject or did you have telephone
15 communications about Y subject? Did you have instant
16 message communications? What did you say? When did you
17 have them?" I mean, they can ask all the same questions
18 they could ask about phone calls or hallway
19 communications with respect to -- to IM messages.

20 And I think it's important to -- to note
21 that despite the existence of two snippets of IMs that
22 were pasted into e-mails that are non -- that are in
23 some ways substantive, Mr. Brin, Ms. Wojcicki -- they've
24 all testified that they use IMs very different than what
25 plaintiff is hypothesizing.

EXHIBIT 62

**IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF TEXAS
MARSHALL DIVISION**

FUNCTION MEDIA, L.L.C.,

Plaintiff,

VS.

GOOGLE, INC. AND YAHOO, INC.,

Defendants.

~~~~~

**Civil Action No. 2007-CV-279**

## JURY TRIAL DEMANDED

In this case, Google has destroyed instant messages that are relevant to this case. You may infer from Google's destruction of these documents that the communications are favorable to the plaintiff Function Media and not favorable to the defendant Google.

**GIVEN** \_\_\_\_\_

**REFUSED**

Hon. Charles Everingham

# **EXHIBIT 63**

[REDACTED]

[REDACTED]

\_\_\_\_\_

\_\_\_\_\_

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# **EXHIBIT 64**



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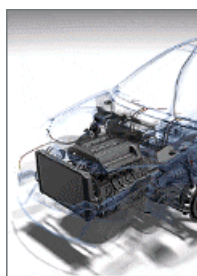
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## Rivals Chasing Velodyne in Lidar Race

**Who's who in emerging lidar market**
**Junko Yoshida**

8/18/2016 09:55 AM EDT

6 comments

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179

MADISON, Wis. — As lidar emerges as one of the most sought-after sensor technologies for autonomous cars, startups specializing in lidars are popping up everywhere in Israel, Germany, Canada, New Mexico and California.

Velodyne Lidar, Inc. (Morgan Hill, Calif.), which shipped its first products in 2007, remains by far the most experienced and best funded lidar tech company. Velodyne announced earlier this week a combined \$150 million investment from co-investors Ford Motor Company and China's leading search engine company Baidu, Inc.

Velodyne has a number of new product lines sampling today, including those based on VLP 16 and VLP 32. Mike Jellen, president & chief operating officer, isn't ready to announce design wins due to non-disclosure agreements, but revealed that Velodyne lidar technology is already in 25 different autonomous car programs today.

Mike Demler, senior analyst at The Linley Group, told EE Times, "Velodyne claims their 'lidar sensors are used by virtually every car manufacturer and tier 1 supplier in the business.'"

Reportedly, Baidu, Ford, Google, Nissan, and Volvo use Velodyne in their autonomous test vehicles, and they have also been used in some "autonomous transport" vehicles, such as Navya Arma, which makes a 100 % electric and autonomous transport vehicles.


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1/18/2018  
7:48:54 PM

**resistion** It was 32x21 on 53 nm pitch nominally though they also showed the other results you mentioned. The emphasis was reducing the LCDU but nano failures were also pointed out.

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Velodyne LiDAR Pucks (Compact VLP 16) to serve as 'Eyes' for NAVYA driverless ARMA shuttles

Wave of startups

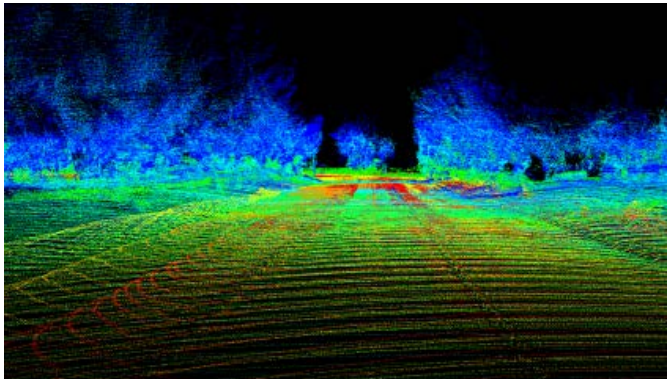
The automotive industry, however, is still in early days with autonomous cars. The battle of cheaper, smaller lidars has begun with a wave of startups, all poised to compete with Velodyne in the lidar race.

Among the competitors are Quanergy (Sunnyvale, Calif.), Innoviz Technologies (Kfar Saba, Israel), Aerostar (Syosset, NY), LeddarTech (Quebec, Canada), Phantom Intelligence (Quebec, Canda), Strobe (Pasadena, Calif.), TriLumina (Albuquerque, NM) and Ibeo Automotive Systems (Hamburg, Germany).

Quanergy, which officially launched “the world's first solid-state lidar for self-driving cars” at the Consumer Electronics Show this year, discussed a plan for dramatically lowering costs to \$250 per sensor. The company announced last fall a partnership with Delphi Automotive Systems in lidar development, but has not launched the product yet.

Ian Riches, director of global automotive practice at Strategy Analytics, noted, "Quanergy has not publicly announced any design wins for production vehicles, but has 'Public partners' that include Mercedes Benz, Hyundai and Renault-Nissan."

Asked to compare Velodyne's lidar to that of Quanergy, Riches explained, "The key difference is that the Velodyne units are still 'solid state hybrid' LiDARs. This means that actuation and detection are solid state, but the scanning is mechanical. The Quanergy units are fully solid state, with no moving parts."



Quanergy LiDAR Point Cloud (Source: Quanergy)

Visteon Works with DNN Vanguard DeepScale  
Intel Springs 'Vision-First' Robocar Plan  
Toyota Head at CES Touts Mobile Commerce



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Conference Launched to Empower Women in Tech

Innoviz Technologies last week (Aug. 8) emerged from stealth mode and announced it raised \$9 million in a Series A financing round.

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**Re: a bit different than standard automotive**  
VisionYG 8/28/2016 7:55:10 PM

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USER RANK  
ROOKIE

Thanks for information. Single Lidar will be the most welcome to OEM...if ready

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**Interesting**  
dt\_hayden 8/22/2016 5:16:37 PM

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USER RANK  
AUTHOR

"TriLumina ... is developing chips to advance time of flight capabilities while reducing power requirements and size."

What does it mean to advance the time of flight of light?

"There is also **Slamtec**, a small start-up company based in China ..."


Probably not the best name for a collision avoidance company.

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**LiDAR & Sensor Fusion**  
MICHAEL NOONEN 8/19/2016 9:26:50 AM

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AUTHOR

Junko: Excellent overview of the very active and accelerating LiDAR space. Insightful comment from NXP about sensors (LiDAR, RADAR, Cameras) "cross validating" for more robust and deployable solutions. Sensor fusion and systems integration might prove to be as important as the race to lower cost solid state LiDAR sensors.

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USER RANK  
CEO

**Re: a bit different than standard automotive**

realjjj 8/18/2016 12:16:13 PM

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That assumes straight to level 5 and not everybody aims for that. Maybe to some extent people are changing their minds and aiming for full autonomy not a gradual transition. In any case, car ownership won't go away overnight so hardware costs will still matter and autonomous features would be key marketing assets. With car as a service you are right, what will matter is the right balance between total costs and quality. At least early on, before competition puts more pressure on costs.

There is also the line of thinking that the software is the hard part and with better software you can save on hardware. Short term, fog and dust are problems too for LiDAR but those are likely solvable.

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USER RANK  
AUTHOR

**a bit different than standard automotive**

alex\_m1 8/18/2016 11:29:09 AM

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Junko, i suspect that this will not play out as usual with automotive technologies - since the business model will be taxi-like, and \$500 over the lifetime of a taxi per trip is insignificant. Even the extra processing isn't that big of a deal. What will be most important is reliability - both of the lidar and the total performance of the vehicle.

This will be true both at the design and regulatory levels, but also at the consumer level - most won't care if the trip is cheaper by few cents but even a hint that the more expensive system will be more reliable would be very good for marketing.

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USER RANK  
AUTHOR

**a bit different than standard automotive**

alex\_m1 8/18/2016 11:29:07 AM

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Junko, i suspect that this will not play out as usual with automotive technologies - since the business model will be taxi-like, and \$500 over the lifetime of a taxi per trip is insignificant. Even the extra processing isn't that big of a deal. What will be most important is reliability - both of the lidar and the total performance of the vehicle.

This will be true both at the design and regulatory levels, but also at the consumer level - most won't care if the trip is cheaper by few cents but even a hint that the more expensive system will be more reliable would be very good for marketing.

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**EXHIBIT 65**

**REDACTED VERSION**

**OF DOCUMENT**

**SOUGHT TO BE SEALED**

**EXHIBIT 66**

**REDACTED VERSION  
OF DOCUMENT  
SOUGHT TO BE SEALED**

# **EXHIBIT 67**

---

**From:** Ferrari, Anna  
**Sent:** Friday, July 08, 2016 10:45 AM  
**To:** John F. Gardner  
**Cc:** Tate, Eric Akira; Amdursky, Eric; Crandall-Whittom, Elizabeth J.  
**Subject:** [Unicorn] Update call at 11am today

John,

We have calendared a call with Stroz Friedberg at 11am this morning for an update on outstanding matters. You are welcome to participate if you have availability. If not, we will update you at a more convenient time. We apologize for the late notice.

The dial-in is 888-629-5634 | Conf Rm # 2852370

Thanks, and best regards,

**Anna Ferrari**  
Morrison & Foerster LLP  
425 Market St. | San Francisco, CA 94105  
P: +1 (415) 268.6728 | F: +1 (650) 251.3906  
[AFerrari@mofo.com](mailto:AFerrari@mofo.com) | [www.mofo.com](http://www.mofo.com)

**PRIVILEGED AND CONFIDENTIAL – SUBJECT TO ATTORNEY-CLIENT PRIVILEGE**

**EXHIBIT 68**

**REDACTED VERSION  
OF DOCUMENT  
SOUGHT TO BE SEALED**

**EXHIBIT 69**

**REDACTED VERSION  
OF DOCUMENT  
SOUGHT TO BE SEALED**

# **EXHIBIT 70**

**From:** [Rivera, Sylvia](#)  
**To:** [QE-Waymo](#)  
**Cc:** [John Cooper \(JCooper@fbm.com\)](#); [Matthew Cate](#); [UberWaymoMoFoAttorneys](#);  
[BSF\\_EXTERNAL\\_UberWaymoLit@bsfilp.com](#); [Uber-sg@LISTS.SUSMANGODFREY.COM](#)  
**Subject:** Waymo v. Uber  
**Date:** Friday, December 29, 2017 4:54:24 PM

---

Counsel:

In double-checking the completeness of Uber's search and production in this supplemental round of discovery, our e-discovery vendor determined that a set of search results inadvertently was not pushed to us for review. Those documents were reviewed this week, we expect to produce about 20 responsive and non-privileged documents tonight or tomorrow, and will supplement the privilege log for Angela Padilla communications as needed in light of privileged documents withheld.

Regards,  
Sylvia

**Sylvia Rivera**  
Morrison & Foerster LLP  
707 Wilshire Boulevard | Los Angeles, CA 90017-3543  
P: +1 (213) 892.5734 | F: +1 (323) 210.1210  
[SRivera@mofo.com](mailto:SRivera@mofo.com) | [www.mofo.com](http://www.mofo.com)

**EXHIBIT 71**

**REDACTED VERSION  
OF DOCUMENT  
SOUGHT TO BE SEALED**

**EXHIBIT 72**

**REDACTED VERSION  
OF DOCUMENT  
SOUGHT TO BE SEALED**

**From:** [Rivera, Sylvia](#)  
**To:** [Andrea P Roberts](#); [QE-Waymo](#)  
**Cc:** [UberWaymoMoFoAttorneys](#); [Boies Service \(BSF\\_EXTERNAL\\_UberWaymoLit@bsfillp.com\)](#); [Uber-sg@LISTS.SUSMANGODFREY.COM](#); [John Cooper \(JCooper@fbm.com\)](#); [Matthew Cate \(MCate@fbm.com\)](#)  
**Subject:** RE: Waymo v. Uber Document Productions and Privilege Log  
**Date:** Friday, December 22, 2017 12:13:40 PM

---

Andrea,

The documents Uber produced yesterday consisted of the unredacted demand letters, a handful of additional budget/finance documents that were located and deemed responsive to Waymo's RFPs, and emails that were provisionally deemed privileged and subsequently determined to be non-privileged or to warrant production with redactions.

With regard to the log of Padilla documents withheld for privilege, Uber prepared and served a log that conformed to the Court's order.

Regards,  
Sylvia

---

**From:** Andrea P Roberts [<mailto:andreaproberts@quinnemanuel.com>]  
**Sent:** Thursday, December 21, 2017 6:48 PM  
**To:** [UberWaymoMoFoAttorneys](#); [Boies Service \(BSF\\_EXTERNAL\\_UberWaymoLit@bsfillp.com\)](#); [Uber-sg@LISTS.SUSMANGODFREY.COM](#); [John Cooper \(JCooper@fbm.com\)](#); [Matthew Cate \(MCate@fbm.com\)](#)  
**Cc:** QE-Waymo  
**Subject:** RE: Waymo v. Uber Document Productions and Privilege Log

- External Email -

---

Sylvia,

As a point of clarification on the second point in my email, we recognize that the Court did not order that Uber log everything. But, is it Uber's position that the rest of Ms. Padilla's 1103 withheld documents did not fit within the scope of what the Court ordered Uber to do?

Thanks,  
Andrea

---

**From:** Andrea P Roberts  
**Sent:** Thursday, December 21, 2017 6:43 PM  
**To:** [UberWaymoMoFoAttorneys](#) <[UberWaymoMoFoAttorneys@mofo.com](mailto:UberWaymoMoFoAttorneys@mofo.com)>; [Boies Service \(BSF\\_EXTERNAL\\_UberWaymoLit@bsfillp.com\)](#) <[BSF\\_EXTERNAL\\_UberWaymoLit@bsfillp.com](mailto:BSF_EXTERNAL_UberWaymoLit@bsfillp.com)>; [Uber-sg@LISTS.SUSMANGODFREY.COM](#); [John Cooper \(JCooper@fbm.com\)](#) <[JCooper@fbm.com](mailto:JCooper@fbm.com)>; [Matthew Cate \(MCate@fbm.com\)](#) <[MCate@fbm.com](mailto:MCate@fbm.com)>  
**Cc:** QE-Waymo <[qewaymo@quinnemanuel.com](mailto:qewaymo@quinnemanuel.com)>  
**Subject:** Waymo v. Uber Document Productions and Privilege Log

Sylvia,

Can you please explain what Uber's productions today were? We were expecting to receive the unredacted [REDACTED] demand letters today, but today's productions included a lot more. Where did they come from and why were they not produced until today? Should we be expecting more productions today and tomorrow?

Additionally, Uber's December 13 Log of Metrics of InHouse Counsel says that there were 1103 withheld documents from Angela Padilla. The privilege log served this evening only has 755 entries. Can you please explain the discrepancy?

Thanks,  
Andrea

**Andrea Pallios Roberts**  
*Of Counsel,*  
Quinn Emanuel Urquhart & Sullivan, LLP

555 Twin Dolphin Drive, 5th Floor  
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# Waymo's self-driving Chrysler Pacifica begins testing in San Francisco

Posted Jan 12, 2018 by [Darrell Etherington \(@etherington\)](#)



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Waymo is bringing its self-driving cars back to San Francisco streets for testing. TechCrunch has obtained pictures of the Waymo Chrysler Pacifica autonomous test vehicle on SF city roads, and Waymo confirmed that it is indeed bringing test vehicles back to one of the first spots where it ever tested AVs in the first place.



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*San Francisco was one of the first cities where we tested our self-driving cars, dating back to 2009 when we traveled everything from Lombard Street to the Golden Gate Bridge. Now that we have the world's first fleet of fully self-driving cars running in Arizona, the hilly and foggy streets of San Francisco will give our cars even more practice in different terrains and environments.*

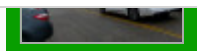
Waymo has one of the most extensive testing programs of anyone in the industry, in geographic terms; the former Google self-driving car company has now tested its autonomous vehicles in 24 cities across the U.S. Its goal with these tests is to expose its fleet to a wide variety of road and weather conditions, as well as to variances in local traffic patterns and human driving habits.



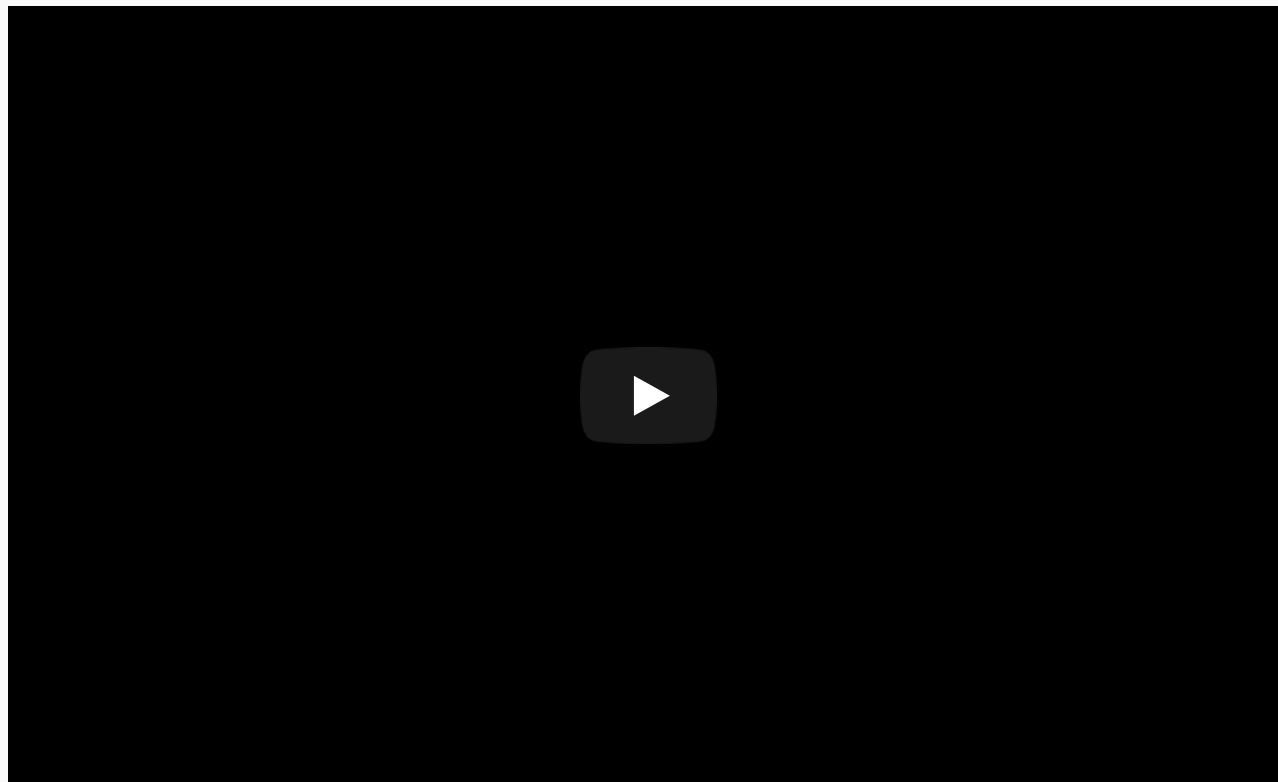


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In San Francisco, it'll have the chance to deal with fog, of course, and with roads with steep inclines, as well as fairly dense peak traffic, ample bike, scooter and pedestrian activity, frequent ongoing road work and a lot more.



Waymo revealed last year that [its test fleet in Arizona now includes fully driverless vehicles](#), with no safety driver behind the wheel at all (the cars in San Francisco will have safety drivers, by the way). The cars there can range across the entire area Waymo has set up around Chandler, Arizona for picking up and dropping off members of its pilot program of its forthcoming fully autonomous ride-hailing service.



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**China's Chery will use Nvidia-powered ZF ProAI for Level 3 autonomous cars**



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**Jared Ellis**

Praise the lord! For all  
The work WAYMO is doing!

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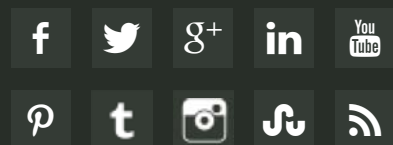
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# **EXHIBIT 74**

THE VERGE

GOOGLE TECH TRANSPORTATION

# Waymo's self-driving minivan spotted in San Francisco

*Show me the way(mo) to go home*

By [Andrew J. Hawkins](#) | [@andyjayhawk](#) | Jan 12, 2018, 1:31pm EST

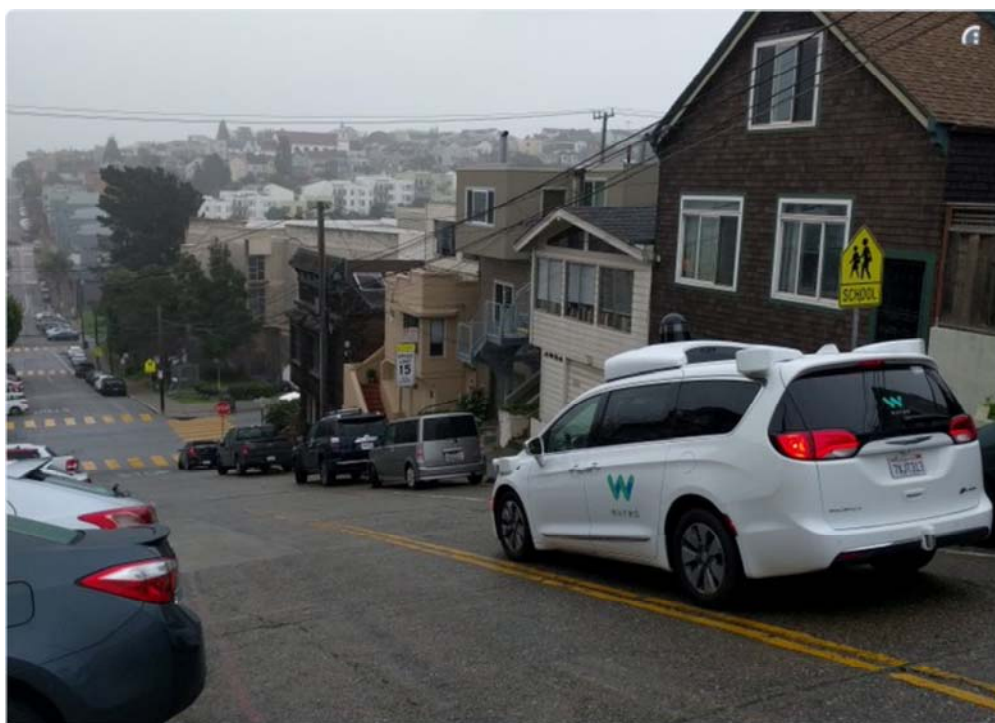
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Photo by Sean O'Kane / The Verge

Publicly, Waymo, the self-driving unit of Google parent Alphabet, says the vast majority of its autonomous vehicle testing is taking place in five cities: Mountain View, California; Austin, Texas; Kirkland, Washington; Phoenix, Arizona; and most recently, Detroit, Michigan. But it would seem the company neglected to tell us about a crucial sixth city: its home turf of San Francisco.

[TechCrunch obtained pictures](#) of a Waymo autonomous minivan on the fog-soaked streets of San Francisco, forcing the company to admit that it has returned to its city of origin, where it first began testing back in 2009. A Waymo spokesperson did not immediately respond to a request for comment.



**TechCrunch**  
@TechCrunch



Waymo's self-driving Chrysler Pacifica begins testing in San Francisco [tcrn.ch/2D73RI7](https://tcrn.ch/2D73RI7) by [@etherington](#)

8:54 AM - Jan 12, 2018

6 71 150

It's a significant move for a couple reasons. The addition of San Francisco to its roster of test cities is a sign that Waymo is interested in tackling denser, more congested urban streets after several years of sticking to smaller, more low-slung communities. And it would appear to be a shot across the bow of GM, which has been testing its Cruise autonomous vehicles in San Francisco and plans to eventually launch a public ride-hail program in the city.

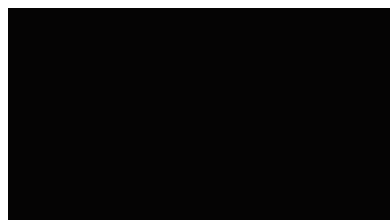
Waymo says it has tested its autonomous minivans in 24 cities across the US in an effort to expose its vehicles to a variety of environments, weather, and road conditions. In San Francisco, Waymo will have the chance to deal with heavy fog and the steep hills for which the city is famous, as well as thousands of bicyclists, pedestrians, and really bad drivers.

Last year, the company began testing its minivans on public roads in Arizona without human safety drivers behind the wheel. In the weeks to come, it says it will be opening these vehicles to the members of its Early Rider program for a ride-hailing trips. There's no word on when this program will expand to other cities.

***Update January 12th, 1:36pm ET:*** A spokesperson for Waymo said, "San Francisco was one of the first cities where we tested our self-driving cars, dating back to 2009 when we traveled everything from Lombard Street to the Golden Gate Bridge. Now that we have the world's first fleet of fully self-driving cars running in Arizona, the hilly and foggy streets of San Francisco will give our cars even more practice in different terrains and environments."

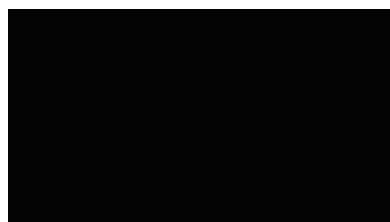
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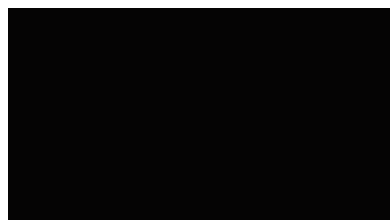
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By [James Vincent](#) | 3 comments



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By [Thuy Ong](#) | 7 comments

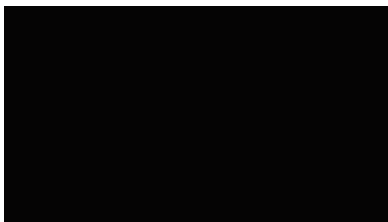
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By [Rachel Becker](#) | 10 comments



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By [Dani Deahl](#) | 11 comments

AD

# **EXHIBIT 75**

**FILED**  
San Francisco County Superior Court

JAN 16 2018

CLERK OF THE COURT

BY: *Jana Gonzales*  
Deputy Clerk

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**SUPERIOR COURT OF THE STATE OF CALIFORNIA**

**FOR THE COUNTY OF SAN FRANCISCO**

UBER TECHNOLOGIES, INC.,

*Petitioner/Plaintiff,*

v.

GOOGLE, INC.,

*Respondent/Defendant,*

ANTHONY LEVANDOWSKI; LIOR RON,

*Real Parties in Interest.*

Case No. CPF-17-515960

**[PROPOSED] ORDER GRANTING  
UBER'S PETITION TO VACATE  
ARBITRATION DISCOVERY ORDER**

Petition Filed: November 30, 2017

1 On November 30, 2017, Plaintiff/Petitioner Uber Technologies, Inc. (“Uber”) filed a  
 2 Petition to Vacate Arbitration Discovery Order and Memorandum and Points and Authorities in  
 3 Support Thereof. Google, LLC (“Google”)<sup>1</sup> answered and opposed Uber’s Petition on December  
 4 14, 2017. Uber filed a reply on December 21, 2017.

5 The Court held an *in camera* hearing on January 11, 2018. The Court has jurisdiction to  
 6 hear this petition pursuant to *Berglund v. Arthroscopic & Laser Surgery Center of San Diego, L.P.*  
 7 (2008) 44 Cal. 4th 528.

8 Having considered the Parties’ filings and oral argument and the materials cited therein,  
 9 and having reviewed the materials at issue *in camera*, the Court rules as follows:

10 1. The Court VACATES the November 15, 2017, decision of the arbitration panel in  
 11 *Google, Inc. v. Levandowski and Ron*, JAMS Ref. No. 1100086069 (the “Arbitration”), as well the  
 12 October 24, 2017, order by Justice Panelli that it summarily affirmed and adopted (together, the  
 13 “Arbitration Order”), and which compelled Uber to produce the following “Stroz-related  
 14 materials”: “(1) the final Stroz Report and all exhibits thereto; (2) any draft or intermediate  
 15 versions of the Stroz Report, including any interim summaries, findings, or analyses by Stroz; and  
 16 (3) all interview memoranda or summaries related to the ‘diligenced’ former Google employees”  
 17 (collectively, the “Stroz Materials”).

18 2. The Court holds that the Stroz Materials are protected under the California law of  
 19 attorney-client privilege, and this privilege was not waived or lost by the sharing of these materials  
 20 by and among Uber, Otto, Anthony Levandowski, Lior Ron, and the respective counsel of those  
 21 parties because those parties shared a common interest in evaluating and preparing for potential  
 22 litigation that might be brought against them by Google. *See* Cal. Evid. Code §§ 912, 952, 954.

23 Accordingly, the Arbitration Order is VACATED as contrary to California law.  
 24 IT IS SO ORDERED.

25  
 26  
 27 <sup>1</sup> On September 30, 2017, Google, Inc. changed its name and corporate format, becoming a limited  
 28 liability company named Google LLC, the proper name for Respondent to this Petition.

1 Dated: January 16, 2018



HONORABLE HAROLD E. KAHN  
JUDGE OF THE SUPERIOR COURT

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